

THE EAST BAY AMATEUR RADIO CLUB, INC.

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THE BLOWN FUSE

CLUB STATION W6CUS

VOLUME XLVII NUMBER 1

JANUARY 1994

Coming Events

January 14, 1994

7:00 p.m. ARES/RACES Meeting
7:30 p.m. EBARC Meeting
Program: "Expose Yourself to
the Many Modes of Ham Radio"
(with a cast of several)

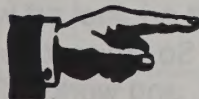


The East Bay Amateur Radio Club meets the second Friday of each month
at the West County Times building, 4301 Lakeside Drive, Richmond.
The Executive Board meets the first Friday of each month at 7:30 p.m.
at the home of Mel Hurley, KC6FAW, 137 Purdue Ave., Kensington.

THE EAST BAY AMATEUR RADIO CLUB, INC.
Post Office Box 1393
El Cerrito, CA 94530



FIRST CLASS MAIL



Robert C. Hughes N6SPY
238 San Carlos Ave.
El Cerrito, Ca 94530

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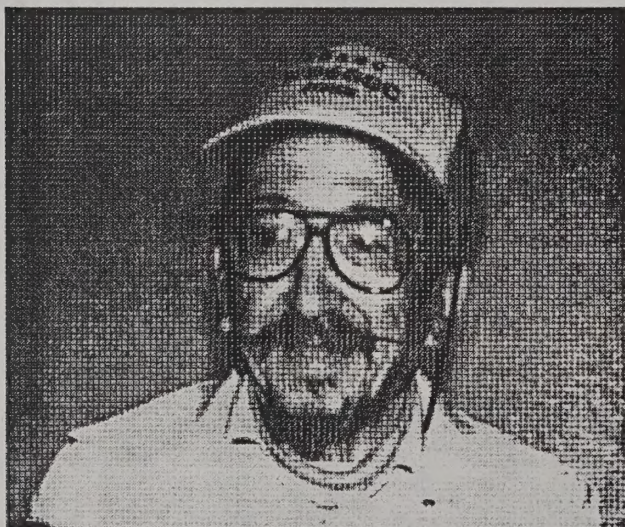
The Blown Fuse is published monthly by the East Bay Amateur Radio Club, Inc. and is free to its members. *The Blown Fuse* welcomes articles of interest to its members and amateur radio in general. *The Blown Fuse* reserves the right to edit or reject any material submitted. Material submitted becomes the property of *The Blown Fuse*. Permission is hereby granted to reproduce material printed herein provided proper acknowledgement is given. Editor: Sharon Primbsch, AA6XZ

Deadline for Feb. issue: Jan. 26

Editor Swap

With this issue, *The Blown Fuse* says "goodbye" to one editor and "hello" to another.

Outgoing editor, John Billones, WD6GGC, has been the mastermind, shepherd, graphics artist, and production manager for *The Blown Fuse* for seven years. He first found out about EBARC from silent key Betty Baldo, KB6P, and her husband, Chris, AI6S. John responded to an issue of the Yolo Amateur Radio Club's newsletter, YARS QSO, of which Betty was the editor.



John Billones, WD6GGC

John's December, 1984 postcard to Betty resulted in a visit to an EBARC meeting with the Baldos, and the rest is history. In addition to being editor for *The Blown Fuse*, John has conducted training classes.

John's been a ham since 1978, and specializes in QRP operation and home-brew rigs. There are few people who can be quite as creative as John with a few wires, tuna cans, bandage boxes, and bleach bottle tops. Trained as a commercial artist, he'll now have much more time for the drawing, QRP operation, and tinkering he loves. We at EBARC thank "Golden Gate Charlie" for a job well done.

I, Sharon Primbsch, AA6XZ, am the new editor. My chemistry and computer programming background and my lack of artistic and editorial talent uniquely qualify me for *Blown Fuse* editor (yeah, sure!). Nevertheless, I'll do my best to get an accurate newsletter to you on time. I've already learned this task can't be done in a vacuum and gratefully acknowledge the efforts of Rachel Lewellen, KB6LHR. She digitized the W6CUS and ARRL logos for the new masthead, maintains the membership database, and prints the mailing labels. Thanks, Rachel!

Please let me know what you like or don't like about *The Blown Fuse*. I welcome articles and ideas for articles from everyone. Since my "assistant editor", Henry Primbsch, KK6PH, presented me with a scanner (thanks again, Rachel), I can now import original art work and photographs. So, keep those articles, letters, photos, and works of art coming...

Keep Your Batteries Charged!

Silent Keys

Les Bodin, W6JKY, died November 28th at age 83. He was a life member of EBARC, and had been with the club since 1967. He held an advance class license and enjoyed RTTY and packet. For many years he provided "elmering" and generators for Field Day. He will be greatly missed.

Grant Calhoun, N6XP, died December 4th at age 87. He was a prominent local attorney with an illustrious career. He is a former EBARC member, who was a club officer in the 1980s. His ham activities included chasing DX. We wish his surviving family well.

Upgrading?

EBARC's ARRL Volunteer Examiner team will hold an amateur radio test session at 9:00 a.m. Sunday, January 16th. It will be held at the Alameda - Contra Costa County Blood Bank on Claremont near College in Oakland. Enter by the door near the parking lot and take the elevator to the third floor. Bring a photo i.d., your current license and CSCEs (if you have any) and photocopies of them. Also bring \$5.60 (exact change) for all but the Novice tests. One fee covers all tests, unless you wish to re-take a test for a level that you fail during the session. Oh yes, it also helps to bring your thinking cap and to *relax*.

Calling All Past Presidents

If you have been President of EBARC, Joe Lee, WB6DOB would like to hear from you. Please call him at (510) 724-0533.

Message from the President

As your new president, I would like the club to focus on the club station this year. There has been a long-standing problem of limited access to the station. The principal cause of this is the limited physical facilities.

There have been previous, unsuccessful, overtures to the Richmond Red Cross and to the City of Richmond in the past to get permission to have improved access and to expand the shack. Since that time, there has been a change in the Red Cross administrative structure. Also, the City of Richmond has experienced a recent release of toxic gas. These factors may make it easier for EBARC to succeed in getting permission to expand and provide easier access to members.

Permissions aren't the only part of the picture, however. It will take thought, effort, time, and money on the part of the membership to make this a success. I am therefore asking for suggestions from any and all on how we might enlarge the club station and improve access. This issue will be discussed at the January meeting, so please come with your ideas. If you are unable to come to the meeting, please contact me or any other officer with your thoughts on the subject.

Fred Nieman, KC6VLL

Lost and Found

A prize won at the December 19th Christmas Dinner was left behind by mistake. If you can identify it, it's yours at the next club meeting.

Snippets from the December Meeting (Party)

Since December's meeting was a party, no minutes were taken. Outgoing President Bob Uhrhammer, WB6VEX, reported that the club is giving the West County Times staff a 5-pound box of candy to thank them for allowing us to use their facilities for our meetings. He also reported that when the Albany community center construction is complete, we might be able to use it for meetings. However, it would cost the club about \$70 per meeting unless we are sponsored by the City of Albany.

Sympathy cards for the families of Les Bodin, W6JKY, and Grant Calhoun, N6XP, were circulated for signature at the dinner.

The new slate of EBARC officers was installed at the meeting. Congratulations Fred Nieman, KC6VLL; Ray Gillett, KF6FU; David Brandon, KG6FR; Rachel Lewellen, KB6LHR; John Percival, WI6O; and Gordon Parsons, NU6W. As always, the identities of officers and committee members is printed on the inside back page of *The Blown Fuse*.

Three people received Certificates of Appreciation for Outstanding Contribution to the club: Gerry White, WB6IZE; Mel Hurley, KC6FAW; and John Billones, WD6GGC. Additional awards were given at the dinner to: Joe Lee, WB6DOB; John Percival, WI6O; Rachel Lewellen, KB6LHR; Sharon Primbsch, AA6XZ; Henry Primbsch, KK6PH; Leo Lewis, WA6ZFY; Chris Wong, N6JGC; Gordon Parsons, NU6W; and John Billones, WD6GGC.

About thirty EBARC members and guests thoroughly enjoyed the food and good company at La Spaghetтата in Pinole. We

didn't get quite enough attendance at the dinner for the restaurant to close its doors to other customers. Therefore, the *EBARC Sympathy Orchestra* took a hiatus instead of inflicting playing Christmas carols for all to sing. We'll try again next year!

Time's A-Wastin'!

1994 EBARC dues are now due. The deadline for renewal is the February club meeting. Pay up and keep this wonderful newsletter coming to your doorstep!

Regular membership is \$20 a year and a family membership is \$24. To help the club keep its records up to date, please submit your dues with the form below (or a photocopy of it). Also, please write your call sign on the check.

Remember, the club gets a few dollars if you renew your ARRL membership through our Treasurer. You may bring your dues and form to the next meeting or mail them to the club's post office box (see the front cover for the address).

PLEASE PRINT	
NAME _____	
CALL SIGN _____	LICENSE CLASS _____
ADDRESS _____	
STREET	APT. NO.
CITY	ZIP
DAY PHONE _____	NIGHT PHONE _____
ARRL MEMBER <input type="checkbox"/> YES	<input type="checkbox"/> REGULAR
<input type="checkbox"/> NO	TYPE MEMBERSHIP <input type="checkbox"/> FAMILY
DATE JOINED EBARC _____	
THIS FORM MUST BE SUBMITTED WITH YOUR 1994 DUES	

THE BASE STATION

Your Contra Costa Ham Radio Headquarters

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 Bencher Paddles
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 Bearcat/Uniden Scanners
 Butternut Antennas
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 Cushcraft VHF & UHF Antennas
 Hustler Mobile Antennas, Mounts & Brackets
 Gordon West Books and Code Practice Tapes
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 (510) 685-7388

Mon-Fri: 10-5:30 Sat: 9-4

In Downtown Concord between Willow Pass Rd. & Concord Blvd.



"Expose Yourself to the Many Modes of Amateur Radio"

The program for the January 1994 EBARC meeting will be demonstrations by club members of several modes of ham radio, such as Amateur Television, Packet, and QRP operation. We have Ray Gillett, KF6FU, to thank for organizing this presentation. It should be very enjoyable, and we urge you and your friends to come Friday evening, January 14th at 7:30 p.m.

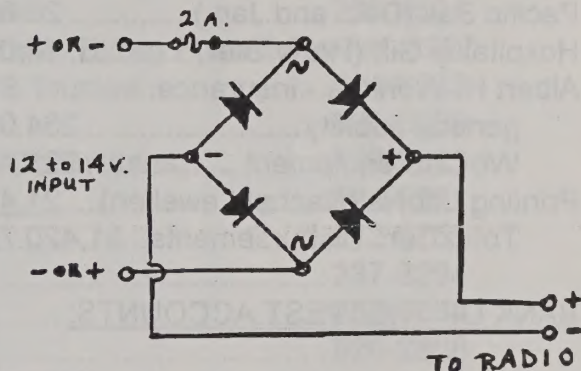
Happy New Year!

"Tech Tip"

by Ray Gillett, KF6FU

Have you ever "smoked" your radio by connecting the 12 volt input voltage backward? Below is a simple circuit to prevent damage to your equipment caused by reversing battery polarity.

The output of a bridge rectifier can only supply positive to the plus terminal and negative to the minus terminal, regardless of input polarity. Use "standard" connectors on the output, and be sure you connect them with the correct polarity to your equipment.



[This is the first of what I hope is many more such "Tech Tips" to come. I encourage everyone to send your tips to me. Ed.]

Treasurer's Report December 1993

Gordon Parsons, NU6W, Treasurer

DECEMBER INCOME:

New Member:

Tony Leong, KE6CQW\$20.00

Membership Renewals (Regular):
 N6SPY, AA6YE, KB6UYP,
 KM6ZY, KK6IJ, N6IIW..... 120.00
 Membership Renewals (Family):
 N6DRT & Mary Jane,
 KC6SOG & xyl,
 N6ASB & Marjorie,
 KD6GEC & KD6AGB,
 N6EEG & N6UYO 120.00
 Christmas Dinner Receipts 853.00
 Total December Income \$1,113.00

DECEMBER DISBURSEMENTS:

Blown Fuse Printing..... \$65.71
 Blown Fuse Postage..... 33.64
 Restaurant Bill (Xmas Dinner) 762.22
 Christmas Cookies (Joe Lee)..... 32.56
 Certificates (Joe Lee)..... 8.01
 Pacific Bell (Dec. and Jan.)..... 26.80
 Hospitality Gift (Harry Bier)..... 14.05
 Albert H. Wohlers - insurance
 general liability..... 264.00
 W6CUS equipment 921.40
 Printing Labels (Rachel Lewellen) ... 21.40
 Total Dec. Disbursements.. \$1,420.79

BANK OF THE WEST ACCOUNTS:

Checking (General Fund) \$888.59
 Savings (Station Fund) \$564.88

The W6CUS radio station equipment is now insured for \$12,478 (at \$1.50 per \$100 of value). The cost for insuring the equipment is now \$192.40, which is about \$15 greater than last year, since we added about \$1000 worth of new equipment. This insurance was paid from the checking account at this time, and will be billed to the savings account later.

The \$410 that has been stored in the savings account for the past several months has been returned to the checking account. An additional savings account will soon be opened to store surplus money for

the general fund. This will allow us to keep the station fund separate from the general fund, but still have an interest-bearing account for surplus general funds.

The club station telephone is now fully in the club's name. It had been in Bob Hughes' name (he helped to open the accounts). This new arrangement prevents Bob from being personally liable for the use of the telephone.

Please pay your membership dues now, if you haven't already.

Remember to feed the Kitty!

ARES/RACES News

Rachel Lewellen, KB6LHR
West Contra Costa RACES EC

Another year is closing, and much has happened to this group. We held our first county-wide training session. I became the WCC RACES Emergency Coordinator for the second time, replacing Bob Hughes, N6SPY, who could no longer spare the time. It seems that two years is the time limit for this volunteer position.

At the January ARES/RACES meeting, our certificate chairman, Joe Lee, will be handing out 1993 awards. It has been a pleasure working with all the hams in 1993.

We are hoping to have a better program for ourselves as ARES/RACES operators in this coming new year. Help plan the program and be an active person in this chapter of RACES.

Remember, our net is held Thursdays at 7:00 p.m. local time, on the 145.11 MHz repeater (possible PL 82.5).

The East Bay Amateur Radio Club, Inc., founded in 1947, is a California non-profit corporation comprised of amateur radio operators in Contra Costa and Alameda counties. The club is open to anyone interested in amateur radio. Annual dues are \$20 for individual membership and \$24 for a family membership. For information, call (510) 233-7509, contact any EBARC official, or write EBARC, P.O. Box 1393, El Cerrito, CA 94530. The East Bay Amateur Radio Club maintains a club station, W6CUS, at the Richmond Red Cross. The packet station, W6CUS-1, is on 145.790 Mhz, and is linked to the EAST BAY LAN (EBAY) on 223.720 Mhz.

1993 EAST BAY AMATEUR RADIO CLUB EXECUTIVE BOARD

Fred Nieman KC6VLL, President.....	223-1748
Ray Gillett KF6FU, 1st VP - Program Chair.....	799-5221
David Brandon KG6FR, 2nd VP - Hospitality Chair.....	845-9559
Rachel Lewellen KB6LHR, 3rd VP - Membership / Publicity Chair / ARES/RACES EC- West Contra Costa County.....	233-5034
John Percival W16O, Secretary	232-8111
Gordon Parsons NU6W, Treasurer / Finance Committee Chair...	785-4290
Ralph Hall W6EFD, Chief Elmer.....	232-0727
Henry Primbsch KK6PH, Education Chair.....	741-8227
Vern Orme AA6YE, Social Committee Chair	233-4504
Sharon Primbsch AA6XZ, ex-Field Day Chair / Blown Fuse Editor	741-8227
Joe Lee WB6DOB, Awards Chair, W6CUS Trustee.....	724-0533
Dave Tyler N6DRT, Public Service Chair.....	525-6200
Ray Gillett KF6FU, Chair, Digital and RFI Committees	799-5221
Will Nance AA6VL, Club Station Chair.....	524-9231
Harry Bier WA6TNI, Historian.....	372-6755
Doug Cain N6JNK, Member-at-Large.....	237-3294
Leo Lewis WA6ZFY, Member-at-Large	233-5034
Mel Hurley KC6FAW, Member-at-Large.....	526-2868

AMATEUR RADIO NETS

NET	DAYS	LOCAL TIME	FREQ, MHZ
EBARC Slow CW Net	Weds	2000	21.115
EBARC SSB Net	Weds	2100	28.395
EBARC UHF Net	Tues	1930 (PL 127.3)	444.450
West Contra Costa County ARES/RACES Net	Thurs	1900	145.110
Northern Alameda County ARES Net	Thurs	1920	147.48s
Contra Costa Communications Club Net	Thurs	1930	145.110
Oakland ARES Emergency Communications Net	Thurs	1930 (PL 77)	146.880
"Over the Hill Gang" Breakfast/Commute Net	Mo-Fr	0710	145.110
Northern Calif. Net VHF Session	Daily	1930	145.410
"Going Home Group"	Mo-Fr	1600	145.110



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Lawrence Expwy.
So. from Hwy. 101

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Jon, KB6ZBI, Mgr.
San Diego Fwy.
at Victory Blvd.

Bob Ferrero W6RJ
President/Owner

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Earl, KE7OA, Mgr.
Tigard-99W exit
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DENVER, CO 80231
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(303) 745-7373
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Joe, KD8GA, Mgr.

PHOENIX, AZ 85015
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(800) 444-9476
Gary, WB7SLY, Mgr.
East of Highway 17

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6071 Buford Highway
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(800) 444-7927
Mark, KJ4VO, Mgr.
Doraville, 1 mi.
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(800) 444-4799
Curtis, WB4KZL, Mgr.
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5W optional
Direct DC Input
Built-in VOX, 41 Mem.
DTMF paging, CTCSS built-in

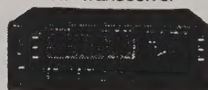
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Gen. Cov. RX, 6.4 lbs., 7.16 x 2.4 x 9.32"
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IC-W21AT, 2M/440

IC-2iA, 2 meter

IC-P2AT, 2 Meter

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IC-P4AT, 440 MHz

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mem. unit
UHF RX

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mem. unit
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2 MTRS/5W

TH-315A

220MHz/2.5 W

**CALL
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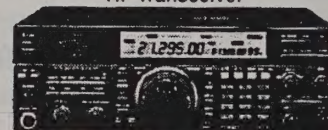


NEW!

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NEW!

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Built-in Gen Cov. RX, 101 Mem.
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Call For Your Low Discounted Price!**

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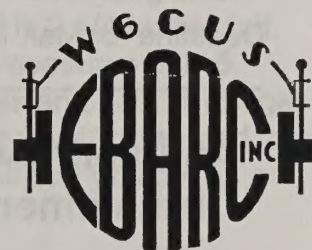
VOLUME XLVII NUMBER 2

FEBRUARY 1994

Coming Events

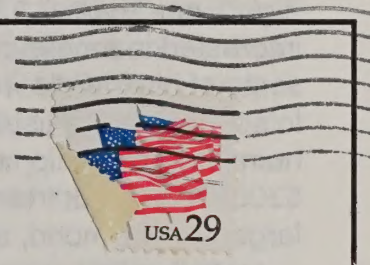
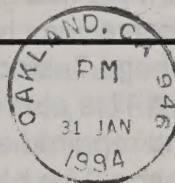
February 11, 1994

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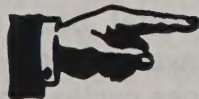


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The Executive Board meets the first Friday of February at 7:30 p.m.
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Deadline for Mar. issue: Feb. 23

An Interview with Bob Uhrhammer, WB6VEX

Last year's EBARC President, Bob Uhrhammer, WB6VEX, has been a ham since age 20. He's been interested in science and technical things from a very tender age. (His first spoken word was "light", not "mama".) Bob became interested in amateur radio at age 7, since some of his friends were hams. He also did lots of shortwave listening and repaired and homebrewed equipment. By age 9 he had \$300 in the bank from his job on his family's large dairy, almond, and feed farm. His



Bob Uhrhammer, WB6VEX, right, turns over the gavel to Fred Nieman, KC6VLL

first purchase was a set of tools and a toolbox, and he soon became the farm's chief "Mr. Fix-It".

Bob's interest in science led him to his current position as Associate Research Seismologist at the UC Berkeley Seismographic Station. He does academic research, and is in charge of the daily operation of the Seismographic Station. He has been to 42 countries since his first visit to Great Britain in 1974. Oops, let's make that 43 countries, since his most recent trip is to New Zealand, to loan the "Kiwis" five portable seismographic stations and teach them how to operate them. He's spent most of his overseas time in Germany and England.

Bob was an early experimenter on the 2 meter ham band, using AM (not FM). In the mid- to early '70s he worked satellites. In the late '70s and early '80s he toyed with packet, before it became popular. With the W6BB group, he has worked EME (earth-moon-earth, or moonbounce), using SSB as well as CW. (Theirs was the second strongest signal, second only to the Aricebo radio telescope). He's had 23-cm equipment for about 10 years, and is a founding member of the 23-cm Club. He's done some color ATV, and has talked to the former Shah of Iran, a Kuwaiti sheik, and Barry Goldwater on HF. He's now interested in dabbling in spread spectrum and other digital ham modes. He's a member of the SARO (Society of Amateur Radio Operators), an invitation-only club.

But wait, there's more! Bob's other hobbies over the years have included racing sports cars and motocross cycles, tinkering with all things mechanical, studying astronomy, hunting deer and antelope, and reading everything he can lay his hands on. In his "spare" time, he serves as the 1st Vice President of the Albany Lions Club.

The 23 CM Band

Henry Primbsch, KK6PH

The 23 cm band (1240-1300 MHz) is the other of the two vhf-uhf bands that has a portion available to novices. The novice portion is 1270 to 1295 MHz, a whopping 25 MHz. This becomes only slightly less impressive when you consider that the repeater offset is 12 MHz. In addition to voice repeater activity on 1270-1276 MHz for input and 1282-1288 MHz for output, the band also supports three amateur television (ATV) channels, an earth-moon-earth (EME) subband and the usual assortment of satellite, CW, SSB, and packet subbands.

Signals having such a short wavelength tend to pass right through concrete and re-bar type buildings because the spacing of re-bars within the walls is typically on the order of a wavelength. They also tend to reflect more readily from metallic surfaces of modest areas. Other effects of the short wavelength are that picket fencing and flutter are high in frequency, even when pedestrian mobile, so are less objectionable.

The minimum in the cosmic noise spectrum extends from 1 to 10 GHz thus making 23 cm one of the quietest bands around.

The '93-'94 ARRL repeater directory has 10 pages of listings for 1240 and above as opposed to 180 pages for the 2 meter band, 48 pages for the 1.25 meter band and 126 pages for the 70 cm band. There are still plenty of frequencies available now, but this band and those above it in frequency are the only growing space left. The dearth (look it up) of repeaters has kept the jammers away, so for now there are few problems of this type.

From a safety standpoint, the exposure limit for this band is 4 milliwatts per square centimeter; this is four times higher than the limit for the 30-300 MHz vhf-uhf bands, because energy at 23 cm frequencies does not penetrate very deep into body tissues. Additionally; hand-held units for this band currently produce only one watt, thus making handhelds for this band even safer than comparable units currently in use on the lower bands.

23 centimeters is about 9 inches, so a half wave dipole is 4 1/2 inches long and a quarter wave vertical is 2 1/4 inches tall. My 5-element beam measures only 5 inches by 7 1/2 inches and has 11 dBi gain. Antennas for this band are "cute", and most neighbors couldn't tell that you put up a beam antenna.

The 23 cm Club, which operates the KK6PH repeater, was formed in July of 1991. By mid August of 1991 the equipment was on hand, and by the end of August, 1991 the repeater was on the air and sanctioned. NARCC will not sanction a repeater unless it is ready for service. Bob Wilkins, N6FRI, is the NARCC frequency coordinator for the 440, 1290, and 2500 MHz bands. He was very helpful, and is an enthusiastic supporter of this band.

[The editor of the CCCC Communicator, Barbara Grazer, KD6OKJ, has generously permitted The Blown Fuse to publish this article. Also, the 23cm Club has changed its regular meeting date to the second Monday of each month from 6-7 p.m. at Round Table Pizza in Albany. Visitors are welcome.]

1994 EBARC Dues are Due!

The deadline for renewal is the February club meeting. Regular membership is \$20 a year, and a family membership is \$24. Anyone not renewed by the deadline will be dropped from the club roster.

Treasurer's Report

January, 1994

Gordon Parsons, NU6W, Treasurer

JANUARY INCOME:

New Members:

Bruce Perens, AB6YM;

Norton Perlman (no call sign) . \$40.00

Membership Renewals (Regular):

WA6TNI, KD6KPO, W6EFD, WA6QJT,

KC6JXB, W6THD, W6JRZ, N6LFW,

KD6AEZ, KC6OMY, EL2BG, KC6JCQ,

WD6AKC, N6JGC, K6HVV, K3MND,

W6KNO, WD6FRO, N7PLO, and

K6HYS 400.00

Coffee Kitty 22.00

Station Fund 14.05

Base Station Check 18.00

ARRL Renewals (KD6AEZ, N6GKY) 95.00

Total January Income..... \$589.05

JANUARY DISBURSEMENTS:

Blown Fuse Printing..... \$64.95

Blown Fuse Postage..... 40.31

Field Day '93 Publicity Printing..... 63.87

Publicity Supplies (D. Brandon)..... 11.07

Pacific Bell (W6CUS)..... 12.79

ARRL Renewals (KD6AEZ, N6GKY) 91.00

Total Jan. Disbursements \$283.99

BANK OF THE WEST ACCOUNTS:

Checking (General Fund) \$1,179.60

Savings (Station Fund) \$578.93

Last month's Treasurer's Report erroneously said that our equipment insurance was \$921.40. It should read \$192.40. [Oops, is my face red! Ed.] All other figures are correct. Funny that only the Treasurer caught this. Doesn't anyone read my reports?

Please pay your dues now if you haven't done so. We will soon publish our annual membership directory of all paid up

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Butternut Antennas
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Carol/Columbia Coax Cable
Cushcraft VHF & UHF Antennas
Hustler Mobile Antennas, Mounts & Brackets
Gordon West Books and Code Practice Tapes
Larsen V.H.F. & U.H.F. Mobile Antennas & Mounts
M.F.J. Keyers, Tuners, T.N.C.'s, Switches & Access.
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Wm. Nye Code Keys & Oscillators
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Van Gordon Antennas, Insulators & Wire
Yaesu H.F., V.H.F. & U.H.F. Transceivers & Accessories

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members, and you'll want to be included on our lists.

Remember to feed the kitty....

Phonetics? EBARC Style Vern Orme, AA6YE

Pie and ice cream could be yours if your name is selected from the list of those who identify the correct hidden call signs. Be sure to come out Friday, Feb. 11th and enter the contest.

FOR SALE: AEA isoloop antenna, hardly used. \$250 or best offer. Contact Robert Marshall, N6GKY at (415) 773-8810.

[For Sale items are listed as a service to members. Neither the East Bay Amateur Radio Club, nor The Blown Fuse assumes any responsibility for sales.]

General Meeting Minutes

January 14, 1994

John Percival, W16O, Secretary

The regular meeting of the East Bay Amateur Radio Club was called to order at 7:42 pm by President Fred Neiman, KC6VLL. Fred welcomed everyone to the first meeting of the year and his first meeting as our new President. He presented Club Service Award certificates for 1993 to members who were not present to receive them at the Christmas dinner. A "Member of the Year" award was presented to Sharon Primbsch, AA6XZ, for her outstanding job leading our 1993 Field Day.

Guests: Ed Bear, KE6DVS, Dan Seifers, and Kham Vilaikam, KD6KQD. Fred welcomed new members Bruce Perens, AB6YM, and Norton Perlman.

Club Station: Fred reported that he had met with the Facilities Manager of the Red Cross to discuss our Club station at the Richmond Red Cross. Fred handed out a drawing of the proposed expansion of our station into Annex B. Fred thinks we have a good relationship established with the new Red Cross leaders and he is optimistic that our plan will be approved by the Red Cross within a couple of weeks. Our Club will need to raise money for this project and the Board will discuss ways this might be done. Fred said the Red Cross may be able to provide some of the materials needed for the remodeling. He also said we still have the goal of gaining greater access to the station for our members.

Program: Our Program Chairman Ray Gillett, KF6FU, introduced a series of talks by members about their homebrew or special interest activities in amateur radio. Paul Christian, KN6OJ, showed his ATV setup in a live demonstration, and told how he got started in ATV. He adapted a VCR

camera, portable TV set, and simple low cost ATV transmitter to build his system. John Billones, WD6GGC, described the interest he has had in QRP HF operation. John showed several of the QRP 40-meter transmitters he has built over the years, including his first, a vacuum tube unit. Ray KF6FU spoke about a power supply he is building by modifying a salvaged 24V supply and building it into an enclosure. For those interested in ATV, Ray said he is going to put his ATV station on the air in Hercules. The frequency will be 432 MHz, which corresponds to cable channel 58. He plans to put video from future Shuttle flights on his station. Leo Lewis WA6ZFY, spoke about Packet radio and the new "APRS" locating system which uses a computer program to display the location of an object based on coordinates transmitted via packet. Kham, KD6KQD had a computer setup to demonstrate this system.

Miscellaneous: David Brandon, KG6FR, mentioned the School Radio Club Roundup that was announced in QST magazine. David will be operating a station at the Jefferson School in Berkeley during the event the week of Feb. 14 to 18. Operating hours will be 9am to 2pm. Rachel reminded members they must renew their memberships by the end of February or they will be deleted from the roster and will not receive the March *Blown Fuse*. Fred mentioned that the Mount Diablo Amateur Radio Club (MDARC) will have a program about APRS at their Jan. 21st meeting in Lafayette. Fred suggested it is good to visit other radio clubs to meet people and see what other clubs are doing. Henry said our VE group will give a test session at the Oakland Blood Bank on Sunday Jan. 16th. The meeting was adjourned at 9:10pm.

EBCRC bids a sad "good-bye" to silent key Lloyd Colvin, W6KG, a Bay Area ham.

Message from the President

Fred Nieman, KC6VLL

The year is off with a bang, or should I say, "shake, rattle, and roll". The first meeting of the year was well attended, and the program(s) were very informative. The more important thing is, it reminds us of the talent in the club. If you have a niche in ham radio, why not call Ray, KF6FU, and let him know?

Speaking of "rock and roll", I would like to thank the members of the club who responded to the Richmond Red Cross during the earthquake. Our station was on the air from about 07:30 to 20:00 Monday, and from 07:30 to 12:00 on Tuesday. We were the only contact the Red Cross had with their Burbank office; a job well done.

Did you notice that I said, *your* station was on the air? W6CUS is your station, and it is about to grow. Shortly after we finished helping the Red Cross, they sent Rachel, KB6LHR, a packet message okaying the new plan for the station. The new station will almost triple the size of the old one. Now we need to build it. I am looking for people to help with raising the almost \$3000 needed, pounding the nails, and training everyone to use it. This club is not only the officers, but the membership. As a member, we expect your help. See you at club activities. Invite and bring a friend.

ARES/RACES News

Rachel Lewellen, KB6LHR

There is still limited seating available for the free Red Cross Disaster Assessment and Shelter Workshop training. The classes will be held Sunday, Feb. 20th, from 9:00 - 5:00 at the Richmond Red Cross. There will be a one hour break for

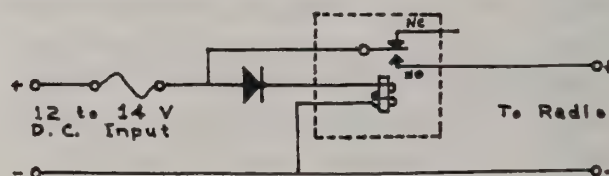
lunch, (provide your own). If you wish to take this training, contact me by Feb. 13th.

Hospitality Chair, David Brandon, KG6FR, wishes to thank Barbara, KD6OKJ, for brewing coffee before club meetings. He also thanks sons Jonathan and Aaron for helping with clean-up. If you wish to join the Hospitality Committee, or suggest activities, please speak up!

"Tech Tip"

Ray Gillett, KF6FU

Here's another way to prevent "smokage" of your 12 volt equipment caused by reversing battery polarity. This one is better for high current loads and will offer no voltage drop to your equipment, as is exhibited by the bridge diode circuit shown last month. The relay will close only when the battery polarity is connected correctly, because of the diode in series with the relay coil. Choose a relay and fuse with contact current rating higher than needed for your equipment.



School Club Roundup

David Brandon, KG6FR

Jefferson Elementary School in Berkeley will participate in the School Club Roundup, the week of February 14th. Fellow hams John Poole, WD6URS, Bill Haddon, N6ZFO, and I will operate principally on Wednesday and Thursday. Details will be available at the February EBARC meeting.

The East Bay Amateur Radio Club, Inc., founded in 1947, is a California non-profit corporation comprised of amateur radio operators in Contra Costa and Alameda counties. The club is open to anyone interested in amateur radio. Annual dues are \$20 for individual membership and \$24 for a family membership. For information, call (510) 233-7509, contact any EBARC official, or write EBARC, P.O. Box 1393, El Cerrito, CA 94530. The East Bay Amateur Radio Club maintains a club station, W6CUS, at the Richmond Red Cross. The packet station, W6CUS-1, is on 145.790 Mhz, and is linked to the EAST BAY LAN (EBAY) on 223.720 Mhz.

1993 EAST BAY AMATEUR RADIO CLUB EXECUTIVE BOARD

Fred Nieman KC6VLL, President.....	223-1748
Ray Gillett KF6FU, 1st VP - Program Chair.....	799-5221
David Brandon KG6FR, 2nd VP - Hospitality Chair.....	845-9559
Rachel Lewellen KB6LHR, 3rd VP - Membership / Publicity Chair / ARES/RACES EC- West Contra Costa County.....	233-5034
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Gordon Parsons NU6W, Treasurer / Finance Committee Chair...	785-4290
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Henry Primbsch KK6PH, Education Chair.....	741-8227
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Sharon Primbsch AA6XZ, Field Day Chair / Blown Fuse Editor...	741-8227
Joe Lee WB6DOB, Awards Chair.....	724-0533
Dave Tyler N6DRT, Public Service Chair.....	525-6200
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Will Nance AA6VL, Club Station Chair.....	524-9231
Harry Bier WA6TNI, Historian.....	372-6755
Doug Cain N6JNK, Member-at-Large.....	237-3294
Leo Lewis WA6ZFY, Member-at-Large	233-5034
Mel Hurley KC6FAW, Member-at-Large.....	526-2868

AMATEUR RADIO NETS

NET	DAYS	LOCAL TIME	FREQ, MHZ
EBARC Slow CW Net	Weds	2000	21.115
EBARC SSB Net	Weds	2100	28.395
EBARC UHF Net	Tues	1930 (PL 127.3)	444.450
West Contra Costa County ARES/RACES Net	Thurs	1900	145.110
Northern Alameda County ARES Net	Thurs	1920	147.48s
Contra Costa Communications Club Net	Thurs	1930	145.110
Oakland ARES Emergency Communications Net	Thurs	1930 (PL 77)	146.880
"Over the Hill Gang" Breakfast/Commute Net	Mo-Fr	0710	145.110
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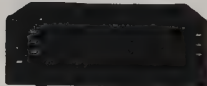
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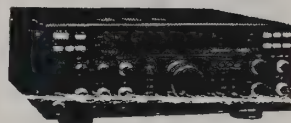


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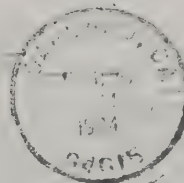
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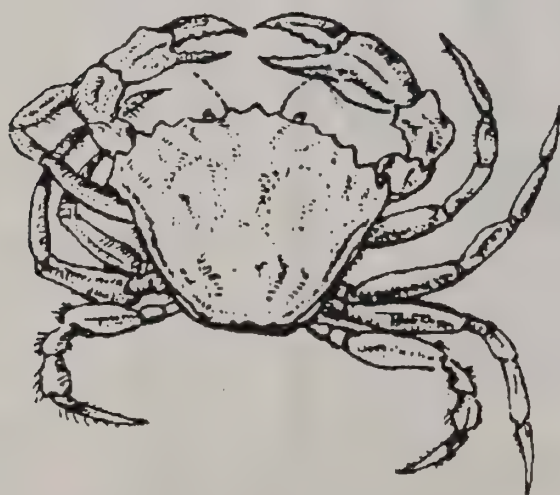
The Blown Fuse is published monthly by the East Bay Amateur Radio Club, Inc. and is free to its members. *The Blown Fuse* welcomes articles of interest to its members and amateur radio in general. *The Blown Fuse* reserves the right to edit or reject any material submitted. Material submitted becomes the property of *The Blown Fuse*. Permission is hereby granted to reproduce material printed herein provided proper acknowledgment is given. Editor: Sharon Primbsch, AA6XZ

Deadline for Apr. issue: Mar. 22

Message from the President

Fred Nieman, KC⁶VLL

Menu: Crab, salad, and pasta
 Date: Saturday, March 19th, 1994
 Time: No-host bar, 6-7 p.m.
 Dinner, 7-9 p.m.
 Place: Bayview Eagles Hall
 3223 Carlson Blvd., El Cerrito
 Donation: \$20 per person



Well, as every member can tell, the crab feed is on. I will cook the food (not the salad), but you'll have the job of selling the tickets. I will also need a few people to help serve that night. So we'll know how

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much food to buy, I need a good count of ticket sales by Saturday, March 12th. Better yet, give me the money from your sales, and call me for more tickets. We really need this fundraiser, and it's up to each of you. Call me days at 231-0300 or in the evenings and weekends at 233-1748.

It's good to stand up in a meeting and suggest things the club should do, and to get a positive response. Of course, each time we do something new, it allows someone a chance to help.

Well, they say you can't train old dogs new tricks. You can, and this was proven on Feb. 20th when 20 EBARC members plus one XYL took Damage Assessment training. Thanks to John Ramsey, KD6YKS, of the Red Cross and to the members, for giving up their Sunday. Speaking of XYLs and spouses, please invite them to meetings and functions.

Reflections on SWR

Art McLaughlin, W6THD

I recently started reading an excellent book by Walt Maxwell, W2DU, entitled *REFLECTIONS - Transmission Lines and Antennas* (published by the ARRL, 1990). I highly recommend this book to anyone who wants to gain a greater understanding of how their RF gets from their transmitter to their antenna, including all those mysterious concepts like *forward power*, *reflected power*, *SWR*, *matching*, and *antenna tuners*, etc.

I thought I would try to pass along some of the gems of information from this book for the benefit of loyal *Blown Fuse* readers. Maybe a good place to start would be with a few comments on SWR.

As you undoubtedly know, SWR stands for *standing wave ratio*. Actually, what we are talking about is the VSWR (*voltage standing wave ratio*), but we just shorten that to SWR. So what is SWR? Well, it is **the ratio of the minimum voltage to the minimum voltage along a transmission line** (like the coax between your transmitter and your antenna). Stick with me, and I'll try to explain what that means.

If everything was perfect, all the power produced by your transmitter would travel through your coax (or other type of transmission line) to your antenna, where it would all be radiated into space. In this case, if we could measure the voltage on the transmission line, anywhere along the line from the transmitter end to the antenna end, we'd find that it was the same at all points (for example, 100 volts everywhere along the line). Thus, the maximum voltage (100 volts) would be the same as the minimum voltage (100 volts), and the ratio of the two would be 100 to 100 or 1:1. So we would say that the SWR was 1:1 or

1.0. We could also think of the voltage as a forward voltage wave, forward meaning that it is travelling up the transmission line from the transmitter to the antenna.

But often we find that things aren't quite perfect and the antenna doesn't accept all the power that arrives at it's end of the transmission line (due to a mismatch, but we'll talk about that later). When this happens, the power that doesn't go into the antenna has to go somewhere (it doesn't just pile up at the junction of the antenna and the coax!), and the only place it can go is back down the transmission line toward the transmitter. We call this *reflected power*. In this case, we still have the forward voltage wave, as before; but we also have a reflected voltage wave which can be of the same amplitude (if all of the power is reflected) or some lower amplitude (if only some of the power is reflected). Now, with reflected power present, we must consider the combined effect of both of these voltage waves as we try to determine the voltage at every point along the transmission line.

First, let's take the case where all of the power is reflected. This would happen if we didn't have any antenna connected at all (open circuit) or if the antenna was completely shorted (short circuit). In either of these situations, the antenna couldn't accept any power, so all the power would have to be reflected back down the transmission line toward the transmitter. The amplitude of the reflected voltage wave would be the same as that of the forward wave (since the forward and reflected power are the same). The combined effect of these two voltage waves, at any point along the line, would be their algebraic sum. Thus, at any point where they were in phase with each other, they would add, and the result would be twice the original voltage. At other points, where they were

180 degrees out of phase, one would be subtracted from the other and, since they are equal, the result would be zero. So, if we were to measure the voltage at all points along the line, as before, we'd now find that, instead of being 100 volts everywhere, it would vary from a maximum of 200 volts to a minimum of 0 volts. (Since the forward and reflected waves are travelling down the line at constant velocity, the maximum and minimum voltage points would remain stationary, forming "standing waves".) Now the SWR would be a ratio of 200:0, or 200 divided by 0, which is infinity (Pretty high SWR! But then we expected that because our antenna was either totally open or shorted!).

In cases where some (but not all) of the power is reflected, the reflected voltage wave would be of lower amplitude than the forward wave. Let's take an example where the forward voltage wave is 100 volts (as before) and the reflected voltage wave has an amplitude of 50 volts. Then, the maximum voltage along the line would be 150 volts (where the two waves are in phase) and the minimum voltage would be 50 volts (180 degrees out of phase). In this case, the SWR would be 150:50 or 3:1. Since power is related to the square of the voltage (Remember the form of the power formula that says $P = E^2 / R$?) the reflected power would be $50^2 / 100^2$ or 2,500/10,000 or 0.25 times or 25% of the forward power. Thus, a 3:1 SWR implies 25% reflected power and if you tried to shove 100 watts down the transmission line, 25% of it would be reflected and only 75 watts would be accepted by the antenna.

I hope this all makes somewhat more sense to you than it did before, and that you can see that SWR can never be less than 1:1 (or less than 1.0) since the

reflected power can never be greater than the forward power. But SWR can be infinite. Here is a table that you might find interesting:

SWR	Reflected Power
1.0	0%
1.5	4%
2.0	11%
2.5	18%
3.0	25%
4.0	36%
5.8	50%
10.0	67%
100.0	96%

School Club Roundup David Brandon, KG6FR

Jefferson Primary School in Berkeley participated in the School Club Roundup, February 15-16th. The station was set up on Monday, February 14. The school library was used as our shack, and an antenna farm, consisting of a multi-band vertical and 2-meter ground plane, sprouted on the roof. We operated on Tuesday from 0850 to 1350 PST and on Wednesday from 0830 to 1340. During the approximately 10 hours of operation, almost all of the 15 K-3 classes spent 15-30 minutes each getting a briefing on radio propagation and listening and speaking over the air. Students also dropped in during recess. We contacted 17 states, Canada, and New Zealand, mainly on 10 and 15 meters sideband. We spoke to 6 other school stations and one special event station, W4LX, which was commemorating Thomas Edison's birthday. We will send QSL cards and request a certificate from the special event station.

John Poole (science teacher), KD6URS, helped us operate, and Bill Haddon,

N6ZFO, helped with station set-up and with the loan of a TenTec Omni V transceiver. The students and I wish to thank the following EBARC members: Bob Szentimrey, KC6QCG loaned a Cushcraft R7 vertical antenna. Tom Trischan, N6AVB, loaned coax feedline. Ben Genegabus, KD6KPO, loaned a microphone. Dave Tyler, N6DRT, loaned a back-up transceiver. Fred Nieman, KC6VLL, loaned a tripod. Other facilitators include Rachel Lewellen, KB6LHR; Joe Lee, WB6DOB; and Rich Parke, KD6JCT.

General Meeting Minutes

February 11, 1994

John Percival, W16O, Secretary

The regular meeting of the East Bay Amateur Radio Club was called to order at 7:52 pm by President Fred Nieman, KC6VLL. Guests: Dale Choy, KD6KMY, Dave Crosby, KD6HAC, John Poole, KD6URS, and Kham Vilaikam, KD6KQD.

Club Station: Fred reported that we have received the go ahead from the Red Cross for the remodeling project at our Club Station at the Richmond Red Cross. Fred said that a design committee has been formed to guide the project. Will Nance, AA6VL, gave an estimate of the cost of the remodeling at \$2,700. Leo Lewis, WA6ZFV, mentioned that members or others may wish to contribute in some way to the project with money or equipment. He suggests that those who make substantial contributions can be given recognition on a plaque at the station. Fred suggested that our Club could put on a "Crab Feed" to raise money for this project. The idea is discussed and several members volunteered to form a committee with Fred to set it up. Fred reported that the W6CUS packet BBS is back in operation. Fred offered a proposal that we fix up some of

the club's extra equipment and then offer it on a lending library basis to our members.

Field Day: Fred reminded us it is time to start thinking about Field Day this year, which will be on June 25th and 26th. A request for a Field Day committee chairperson volunteer was made. Will Nance, AA6VL, and Bob Szentimrey, KC6QCG, offered to begin as co-chairmen.

Program: Our Program Chairman Ray Gillett, KF6FU, introduced our member Gerry White, WB6IZE, who spoke about direction finding equipment techniques. Gerry first described various "body shield" methods. He also showed a technique using a handheld with a "T" connector and two rubber duck antennas. Gerry then demonstrated an antenna with diode switching that he said will work over a wide range of signal strengths. This design was featured in QST last year. Ray Gillett then spoke about his interest in the D.F. hobby. He related an experience he had tracking down an accidentally stuck transmitter. Ray showed some pieces of DFing equipment he has built. He concluded the program by showing an emergency kit he has put together to carry in his vehicle.

Miscellaneous: David Brandon, KG6FR, again mentioned the School Radio Club Roundup that was announced in QST magazine. David will be operating a station at the Jefferson School in Berkeley between 9am and 2pm on Feb. 15 and 16. He said he has a radio to use, but needs to borrow about 150 feet of coax and a backup radio. Sam Watson, N6VIF, said he can order jackets again if he gets enough interest.

The meeting was adjourned at 9:03pm.

Regular Test Sessions

EBARC's ARRL Volunteer Examiner team now holds amateur radio test sessions that are regularly scheduled. Test are held the third Sunday of every odd-numbered month at 9:00 a.m. at the Alameda - Contra Costa County Blood Bank in Oakland. The next test session is March 20th.

Treasurer's Report February, 1994

Gordon Parsons, NU6W, Treasurer

FEBRUARY INCOME:

New Members:

Dan Seifers; Thomas Porter, KD6ZIY;
Ed Bear, KE6DUS..... \$60.00

Membership Renewals (Regular):

N6WVR, WA6ODB, KC6ONS, N6AVB,
N6PIX, KA6SOC, AB6AC, W6DXG,
HC2EU/KC6WAZ, KC6JAE, N6KMK,
WA6FDF, KB6WC, & N6VIF.... 280.00

Coffee Kitty 16.85

Station Fund 8.25

Ham Radio Outlet Check 60.00

Total February Income \$425.10

FEBRUARY DISBURSEMENTS:

Blown Fuse Printing..... \$45.46

Blown Fuse Postage..... 42.05

Post Office Box Rental..... 35.00

Refreshments..... 12.69

Pacific Bell (W6CUS)..... 12.79

Bayview Eagles (room deposit) 150.00

Total Feb. Disbursements..... \$297.99

BANK OF THE WEST ACCOUNTS:

Checking (General Fund) \$1,298.46

Savings (Station Fund) \$587.18

About 80% of last year's membership list have paid their dues for this year. Please pay your dues if you haven't already. Remember to feed the Kitty(s)!

Stanford OSCAR Talk

On Thursday, March 3rd, at 7:30 pm, Professor Robert Twiggs of Stanford will be giving a talk about their amateur radio based satellite program. Professor Twiggs's extensive background in amateur satellites at Weber State University included OSCAR WO-18 and NUSAT I. His positive experience with including OSCAR activities in the education curriculum has led him to establish a program at Stanford. He hopes to get faculty, staff, students and local volunteer engineers to work together in a similar manner as was done at WSU to design, build, launch and operate microsatellites at Stanford. Professor Twiggs will be discussing possible payloads for Stanford's amateur satellites and science payloads.

The talk will be held at UCB's Center for Extreme Ultraviolet Astrophysics, 2150 Kittredge Street, Berkeley (94720). The CEA is between Shattuck and Oxford Streets, diagonally across from the California Cinema. A tour of CEA, will be available for those arriving at 7:00 p.m. If you miss the meeting and wish to participate in the satellite project, contact Will Marchant, KC6ROL, at CEA.

Welcome, New Members!

EBARC extends a hearty welcome to new members Dan Seifers, Thomas Porter (KD6ZIY) and Ed Bear (KE6DUS). You've joined a fun, active ham club!

Some Famous Hams

Barry Goldwater, K7UGA, former Senator
Walter Cronkite, KB2GSD, frmr newsmen
Chet Atkins, WA4CZD, country musician

The East Bay Amateur Radio Club, Inc., founded in 1947, is a California non-profit corporation comprised of amateur radio operators in Contra Costa and Alameda counties. The club is open to anyone interested in amateur radio. Annual dues are \$20 for individual membership and \$24 for a family membership. For information, call (510) 233-7509, contact any EBARC official, or write EBARC, P.O. Box 1393, El Cerrito, CA 94530. The East Bay Amateur Radio Club maintains a club station, W6CUS, at the Richmond Red Cross. The packet station, W6CUS-1, is on 145.790 Mhz, and is linked to the EAST BAY LAN (EBAY) on 223.720 Mhz.

1993 EAST BAY AMATEUR RADIO CLUB EXECUTIVE BOARD

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Ray Gillett KF6FU, 1st VP - Program Chair.....	799-5221
David Brandon KG6FR, 2nd VP - Hospitality Chair.....	845-9559
Rachel Lewellen KB6LHR, 3rd VP - Membership / Publicity Chair / ARES/RACES EC- West Contra Costa County.....	233-5034
John Percival W16O, Secretary	232-8111
Gordon Parsons NU6W, Treasurer / Finance Committee Chair...	785-4290
Ralph Hall W6EFD, Chief Elmer.....	232-0727
Henry Primbsch KK6PH, Education Chair	741-8227
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Sharon Primbsch AA6XZ, Blown Fuse Editor.....	741-8227
Joe Lee WB6DOB, Awards Chair.....	724-0533
Dave Tyler N6DRT, Public Service Chair.....	525-6200
Bob Uhrhammer, W6CUS Trustee-designate.....	525-1447
Ray Gillett KF6FU, Chair, Digital and RFI Committees	799-5221
Will Nance AA6VL, Club Station Chair / Field Day Chair.....	524-9231
Harry Bier WA6TNI, Historian.....	372-6755
Doug Cain N6JNK, Member-at-Large.....	237-3294
Leo Lewis WA6ZFV, Member-at-Large	233-5034
Mel Hurley KC6FAW, Member-at-Large.....	526-2868

AMATEUR RADIO NETS

NET	DAYS	LOCAL TIME	FREQ, MHZ
EBARC Slow CW Net	Weds	2000	21.115
EBARC SSB Net	Weds	2100	28.395
EBARC UHF Net	Tues	1930 (PL 127.3)	444.450
West Contra Costa County ARES/RACES Net	Thurs	1900	145.110
Northern Alameda County ARES Net	Thurs	1920	147.48s
Contra Costa Communications Club Net	Thurs	1930	145.110
Oakland ARES Emergency Communications Net	Thurs	1930 (PL 77)	146.880
"Over the Hill Gang" Breakfast/Commute Net	Mo-Fr	0710	145.110
Northern Calif. Net VHF Session	Daily	1930	145.410
"Going Home Group"	Mo-Fr	1600	145.110



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(800) 444-9476
Gary, WB7SLY, Mgr.
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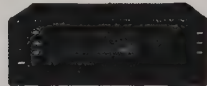
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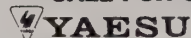
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THE EAST BAY AMATEUR RADIO CLUB, INC.

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THE BLOWN FUSE

CLUB STATION W6CUS

VOLUME XLVII NUMBER 4

APRIL 1994

Coming Events

April 8, 1994

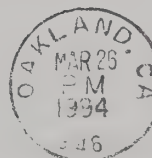
7:00 p.m. ARES/RACES Meeting
7:30 p.m. EBARC Meeting
Program: "WA6QQF Telephone BBS:
What it is and how to use it"
Mr. Kim Leong, WA6QQF



The East Bay Amateur Radio Club meets the second Friday of each month
at the West County Times building, 4301 Lakeside Drive, Richmond.
The Executive Board meets the first Friday of each month at 7:30 p.m.
at the home of Mel Hurley, KC6FAW, 137 Purdue Ave., Kensington.



THE EAST BAY AMATEUR RADIO CLUB, INC.
Post Office Box 1393
El Cerrito, CA 94530



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Robert C. Hughes N6SPY
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The Blown Fuse is published monthly by the East Bay Amateur Radio Club, Inc. and is free to its members. *The Blown Fuse* welcomes articles of interest to its members and amateur radio in general. *The Blown Fuse* reserves the right to edit or reject any material submitted. Material submitted becomes the property of *The Blown Fuse*. Permission is hereby granted to reproduce material printed herein provided proper acknowledgment is given. Editor: Sharon Primbsch, AA6XZ

Deadline for May issue: Apr. 27

Message from the President Fred Nieman, KC6VLL

Things that make your day... Overheard on the 511 machine after the last EBARC meeting, "My little girl is upset because we didn't win the raffle." Another voice said, "Just think of the fun we had buying the tickets." GREAT ATTITUDE!!! Thanks Rachel. I'm darn proud to be part of your ham "family".

Well, the March 19th crab feed is over, and we made some money. I think most people



KK6IJ, KC6VLL, & KB6LHR Cook Pasta

had a great time, thanks to the help I had. Thanks to Will Nance, AA6VL, for the hall. Thanks to Bob Jr., KK6IJ, for keeping an eye on the sauce. Thanks to Miss Rachel, KB6LHR, for organizing the servers. Thanks to the servers: Vern, AA6YE; Joe Lee, WB6DOB; and my wife, Audrey. Thanks to Barbara for being door guard and money collector. Thanks to Sam, N6VIF, Sue, KA6SOC, and Mr. "no-call" (Sue's husband, Bill) for the raffle. A second thanks to Joe for getting dishpan hands. Last of all, thanks to you for coming.

We fed about 130 people. We used 375 lb. of crab, 35 lb. of pasta, 42 lb. of salad, and made a profit of about \$1400, including the raffle. We received additional donations of \$600, some of which were from Honor Roll donors Henry and Sharon, Joe Lee, and Greg Small. Anyone else who donates \$100 or more in money, equipment, or materials will also have their name added to Honor Roll on the redesigned plaque at the station, so get out your checkbooks!

General Meeting Minutes March 11, 1994 John Percival, W16O, Secretary

The regular meeting of the East Bay Amateur Radio Club was called to order at 7:49 pm by President Fred Nieman, KC6VLL. Fred asked each member and guest to introduce themselves and say a few words about their own interests in Amateur Radio.

Guests: Dale Choy, KD6KMU, Dave Crosby, KD6HAC, Lita Crosby, Paul Fry, KD6NRD, Robert Vallio, W6RRG, and Kham Vilaikam, KD6KQD. The Club welcomed new member Sharon Van Nest, KE6CFM, who joined at this meeting.

Club Station: Fred reported on progress for the "Crab Feed" to raise funds for the Club Station remodeling project at the Richmond Red Cross. He said he needs a count of how many will attend so he can order enough food. The Board decided we should modify the Club Station memorial plaque to add the names of those who make substantial contributions toward the station remodeling project. A substantial contribution would be one of \$100 or more. Fred said there is some membership interest in making a collapsible, portable Quad antenna for the Club. Bob Uhrhammer, WB6VEX, offered to chair a committee for this project.

Field Day: Field Day committee co-chairman Will Nance, AA6VL, said we need to start our planning early for the June 25-26 event. He asked for and received volunteers to lead most of the key functions at Field Day. The tentative plan is to return to the Berkeley Marina Waterfront Park site we have used for the last two years. Further F.D. planning will be done as we approach the event.

Program: President Fred introduced our special guest Bob Vallio, W6RRG, who is Section Manager for the ARRL Pacific Division, East Bay Section. Bob began by handing out Emergency Communications Commendation certificates to many of our members. He also presented a collection of Brass Pounders League "BPL" monthly award certificates to Joe Lee, WB6DOB. Each certificate represented 500 or more pieces of message traffic handled in a given month. Bob gave a talk about ARRL Awards and Certificates. He showed sample copies of many of the well known and not so well known operating and service award certificates. He explained the qualifications and application procedure for many of these awards. At the conclusion of this talk, Fred presented Bob

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Guy Wire	Magnetic Antenna Bases	Coax Patch Cords
Wire Clamps	Trunk Mounts	Mic Plugs & Connectors
Mast Bases	Ball Mounts	PL-259's, & N Connectors
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Center Insulators	Code Practice Software	Scanner Frequency Books
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with certificates of appreciation from the East Bay Amateur Radio Club.

The meeting was adjourned at 9:39 pm for raffle drawings.

Reaching ARRL by E-Mail Part 1 - Internet David Brandon, KG6FR

If you have a computer account on the Internet, you can use the INFO service of ARRL HQ. To use it, send an electronic mail message to: **info@arrl.org**. Each line of your message should contain a command as shown below. You may place as many commands in a message as you want. Each file you request will be sent to you in a separate electronic mail message. Only ASCII text files are supported at present. Valid INFO commands are:

help Sends a help file
index Sends an index of available files
send file Sends *file* e.g.: **send email**
quit Terminates the transaction (use this if you have a signature or other text at the end of the message.)

Note: your message will *not* be read by a human! Do not include any requests or questions except by way of the above commands. Retrieve the *email* file for a list of addresses of ARRL HQ humans. Do *not* use your electronic mailer's *reply* command to send your next request. Generate a new message addressed to **info@arrl.org** instead. ARRL set it up this way to prevent failed mail from looping endlessly, annoying system administrators.

EBCRC members who can provide elmering with Internet access include KG6FR, KK6PH, AA6XZ, and WB6VEX.

Coming to *The Blown Fuse* soon: Reaching ARRL through other online services and ARRL Bulletin Board.

Treasurer's Report

March, 1994

Gordon Parsons, NU6W, Treasurer

MARCH INCOME:

New Member:

Sharon Van Nest, KE6CFM \$20.00

Membership Renewals (Regular):

N6VGA, N6VOM, N6PIX, KD6AGA,

KC6JAE, H. R. Downs..... 125.00

Membership Renewals (Family):

KB6JZM & KD6BAE 24.00

ARRL Renewals:

KC6JCQ, KF6FU, KG6FR..... 84.00

Coffee Kitty 19.70

Station Fund 8.00

W6CUS Building Fund Donation 50.00

Total March Income \$330.70

MARCH DISBURSEMENTS:

Blown Fuse/Roster Printing.....\$56.72

Blown Fuse/Roster Postage.....53.47

Pacific Bell (W6CUS)12.79

ARRL Renewals:

KC6JCQ, KF6FU, KG6FR78.00

Refreshments15.44

Total Mar. Disbursements.....\$216.42

BANK OF THE WEST ACCOUNTS:

Checking (General Fund).....\$1,354.74

Savings (Station Fund).....\$645.18

Donations have started for the W6CUS building fund. Please remember that we are building a first rate amateur radio station that serves not only the East Bay, but throughout the world. Your financial help is needed now.

Remember to feed the Kitty(s)!

ARES/RACES News

Rachel Lewellen, KB6LHR

West Contra Costa RACES EC

Perhaps one thing I should comment on this time is the yearly update system used by Contra Costa County. When you made the decision to become active in RACES, you filled out a set of papers: 1) a RACES application containing general information about you; 2) a small information sheet to accompany your picture and thumbprint; and 3) an oath of allegiance.

The oath form contains a description line, *Disaster Service Worker - RACES*. Contra Costa RACES requires you to sign this oath once a year. To remain registered, you must comply. It's "oath" time again. I need you to work with me in order to complete and sign these papers and get them back to me. Please come to the April 8th meeting or send me a SASE ASAP.

We just had our first bike ride of this year. We are using these rides as an outing and practice activity in a non-emergency situation. Most of our meetings are not the most fun thing I can think of to do, so these rides *do* help to make our training enjoyable. On May 1st we will help the Grizzly Peak Cyclists during their rides of up to 100 miles. A wonderful barbecue lunch highlights the day of communications and observation. Then, in late June, we will be helping with the Wine Country three-day ride. Come work and play with us! 73s

Novice and Technician Classes **Henry Primbsch, KK6PH**

The recent Novice/Technician class is over. Three people stayed to finish the 16 week, one-day-a-week course. The first person to earn a license from this class was Margie Cornell, who was awarded a *World Radio* subscription by EBARC. Many thanks to Kit Chantarotwong, KB6JZM, who taught the Morse Code portion.

If there's enough demand, the next Novice/Technician class will be this summer. I'd like to hold the class two nights a week, so it will only last about eight weeks. I will need volunteers to help teach. Don't be bashful: during the recently finished course, I developed a good set of teaching notes which will be helpful for instructors of future sessions.

The Editor Goofs Again

In last month's *Blown Fuse*, I mangled the definition of SWR in the article *Reflections on SWR*. The sentence should have read, "SWR is the ratio of the **maximum** voltage to the minimum voltage along a transmission line." My sincere apologies to the author, Art McLaughlin, W6THD. [Ed.]

Local QRPer Busted!

A local ham, well known for (what he said were) his QRP activities and homebrew rigs was the subject of a pre-dawn raid by the enforcement arm of the FCC. He was charged with running a 5000 watt station. "I should have realized that something was wrong when the bamboo spreaders of my quad caught fire," he said.

A milliammeter, mislabeled as a microammeter, seems to have been the culprit. "I couldn't get proper power output," said the amateur, "so I just kept adding onto the final amp. I had just achieved what I thought was five watts out, when my SWR went haywire. I looked out to check my antenna just as the fire department rolled up."

No information was available on the ham's application for the first 10 meter HF CW QRP ARRL DXCC EME award.

[Adapted from the Kalamazoo (MI) Amateur Radio Club's newsletter for this 4/1/94 issue of The Blown Fuse - Ed.]

Thanks for Helping W6CUS

EBARC thanks Henry Primbsch, KK6PH, for repairing one of the antenna tuners and checking the other for the club station.

Many thanks also to Art McLaughlin, W6THD, and Henry Primbsch, KK6PH, for replacing the 40M and 80M inverted Vee antennas at the Alameda/Contra Costa Medical Center (Blood Bank). EBARC supports the Muriel Hunter Memorial amateur radio station at this site. The previous antenna system was causing alarms on blood processing equipment to trip during the HF hospital net.

EBARC also thanks the following people for helping to sell the equipment donated to us by silent key John Nettleton's son, Don: Leo Lewis, WA6ZFB; Todd Myers; Robbie Robinson, N6MNL; Barbara Grazer, KD6OKJ; Kham Vilaikam, KD6KQD; and Ed Bear, KE6DVS. About \$270 was raised.

Thank you Gerry White, WB6IZE, for stringing guys onto the three masts you donated last year, and for donating more wire HF antennas to the club.

Several meetings ago, Gerry White, WB6IZE, gave a 3-1/2 digit multimeter to an EBARC member. If you are him/her, you can get the operating manual for it by contacting Gerry at 531-8639.

Is your License Expiring?

Starting March 1, 1994, you *must* use the FCC Form 610 dated November 1993 to renew your Amateur Radio license. The layout of this new form is quite different from the older forms. *All older 610s are now obsolete.* Get your new version from the FCC, Gettysburg, Pennsylvania. [Ed.]

How to Kill a Club

Don't participate beyond paying your dues. Let "them" handle things. "Them" complain that members have no voice in management. Decline all offices and committee appointments - you are too busy. Then offer advice on how "they" should do things. If appointed to a committee, don't work - it's a courtesy appointment. Then complain because the organization has stagnated. If you do attend meetings, don't initiate new ideas. Then you play "devil's advocate" to ideas from others. Don't rush to pay your dues - they're too high anyway.

Then complain about poor financial management. Don't encourage others to become members - that's selling. Then complain that membership is not growing. Don't volunteer your talents - that's ego fulfillment. Then complain you're never asked; never appreciated. [Reprinted from The Journal of Virginia Academy of Family Practice - Ed.]

Congratulations!

The following hams recently upgraded: Kham Vilaikam, KD6KQD, (Advanced); Ed Bear, KE6DVS (General); and Craig Jordan, KB6EJL (Extra). Studying pays!

Intensive No-Code Tech Class

For \$85, some *in-advance studying*, and two full days in class, you or someone you know may be able to learn enough to pass the test to get a no-code Technician license.

This class will be held Friday, April 22nd from 8:00 a.m. to 5:00 p.m. and Saturday, April 23rd from 8:30 a.m. to 4:30 p.m. License testing starts 5:00 p.m. Saturday, and should be completed by 7:00 p.m. The class is sponsored by the Kaiser Foundation Health Plan's Emergency Preparedness Department for its employess, but others are welcome also. The course will be given at Kaiser's regional offices, near Lake Merritt in Oakland. The instructor will be Loraine McCarthy, N6CIO, an Extra class ham who's also an ARRL Registered Instructor.

For more details, contact Margaret Wang at 987-3769 soon. Remember *pre-study* is required. There are other sessions planned for later in the year, but they would also not be free.

The East Bay Amateur Radio Club, Inc., founded in 1947, is a California non-profit corporation comprised of amateur radio operators in Contra Costa and Alameda counties. The club is open to anyone interested in amateur radio. Annual dues are \$20 for individual membership and \$24 for a family membership. For information, call (510) 233-7509, contact any EBARC official, or write EBARC, P.O. Box 1393, El Cerrito, CA 94530. The East Bay Amateur Radio Club maintains a club station, W6CUS, at the Richmond Red Cross. The packet station, W6CUS-1, is on 145.790 Mhz, and is linked to the EAST BAY LAN (EBAY) on 223.720 Mhz.

1993 EAST BAY AMATEUR RADIO CLUB EXECUTIVE BOARD

Fred Nieman KC6VLL, President.....	223-1748
Ray Gillett KF6FU, 1st VP - Program Chair.....	799-5221
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Bob Uhrhammer, W6CUS Trustee-designate.....	525-1447
Ray Gillett KF6FU, Chair, Digital and RFI Committees	799-5221
Will Nance AA6VL, Club Station Chair / Field Day Chair	524-9231
Harry Bier WA6TNI, Historian.....	372-6755
Doug Cain N6JNK, Member-at-Large.....	237-3294
Leo Lewis WA6ZFY, Member-at-Large	233-5034
Mel Hurley KC6FAW, Member-at-Large.....	526-2868

AMATEUR RADIO NETS

NET	DAYS	LOCAL TIME	FREQ, MHZ
EBARC Slow CW Net	Weds	2000	21.115
EBARC SSB Net	Weds	2100	28.395
EBARC UHF Net	Tues	1930 (PL 127.3)	444.450
West Contra Costa County ARES/RACES Net	Thurs	1900	145.110
Northern Alameda County ARES Net	Thurs	1920	147.48s
Contra Costa Communications Club Net	Thurs	1930	145.110
Oakland ARES Emergency Communications Net	Thurs	1930 (PL 77)	146.880
"Over the Hill Gang" Breakfast/Commute Net	Mo-Fr	0710	145.110
Northern Calif. Net VHF Session	Daily	1930	145.410
"Going Home Group"	Mo-Fr	1600	145.110

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Rich, WA9WYB, Mgr.
I-880 at 23rd Ave. ramp

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(800) 854-6046
Tom, KM6K, Mgr.
Hwy 163 &
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510 Lawrence Expwy. #102
(408) 736-9496
(800) 854-6046
Tom, KB6LUC, Mgr.
Lawrence Expwy.
So. from Hwy. 101

VAN NUYS, CA 91411
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Exit 54, I-95, South to US 1

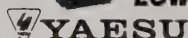
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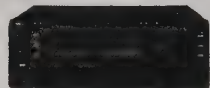
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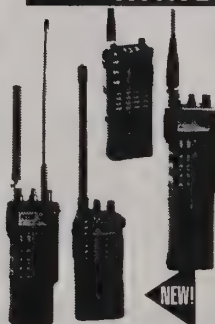


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THE EAST BAY AMATEUR RADIO CLUB, INC.

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THE BLOWN FUSE

CLUB STATION W6CUS

VOLUME XLVII NUMBER 5

MAY 1994

Coming Events

May 13, 1994

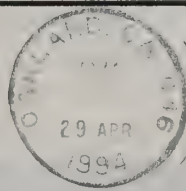
7:00 p.m. ARES/RACES Meeting
7:30 p.m. EBARC Meeting
Program: More Field Day Planning
(plus Other Stuff?)



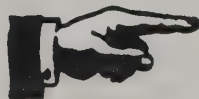
The East Bay Amateur Radio Club meets the second Friday of each month at the West County Times building, 4301 Lakeside Drive, Richmond.
The Executive Board meets the first Friday of each month at 7:30 p.m. at the home of Mel Hurley, KC6FAW, 137 Purdue Ave., Kensington.



THE EAST BAY AMATEUR RADIO CLUB, INC.
Post Office Box 1393
El Cerrito, CA 94530



FIRST CLASS MAIL



Robert C. Hughes N6SPY
238 San Carlos Ave.
El Cerrito, Ca 94530

POSTMASTER:
Address Correction Requested

The Blown Fuse is published monthly by the East Bay Amateur Radio Club, Inc. and is free to its members. *The Blown Fuse* welcomes articles of interest to its members and amateur radio in general. *The Blown Fuse* reserves the right to edit or reject any material submitted. Material submitted becomes the property of *The Blown Fuse*. Permission is hereby granted to reproduce material printed herein provided proper acknowledgement is given. Editor: Sharon Primbsch, AA6XZ

Deadline for June issue: May 23

26 Years to Fulfill a Prophecy

Alan H. Craddock, WB6DXZ

Yes, 26 years between 1941 and 1967... but let me back up a bit...

The scene is wartime England in 1941. I had just attained the minimum age of 17-1/4 to qualify for air crew in the RAF, and was on my way to the recruiting centre in London. I had dreams of wearing those coveted wings on my chest, flying a Spitfire, and having the girls fall all over me at the local pub!



Alan H. Craddock, WB6DXZ

So, I go off the "Underground" or "Tube", as it is called, and walked over to the Centre. I was put through the usual rigmarole with forms and such, had a physical and a lot of extensive aptitude tests, including one where you had to send as many dots as fast as you could, on a telegraph hand key. My first time on a key. Six weeks after returning home, I received a letter informing me of an aptitude for Morse, and requesting me to report back to them. All they could offer me was a position as Wireless Operator-Air Gunner, commonly known as WOP/AG. Not exactly flying a Spitfire, but better than nothing, so I signed up for it. I was put on the reserve list and told I would be called up in due time. It was not to be, however. As it turned out, the job I held in the design office of the Gloster Aircraft Company, which was developing the first experimental jet fighter aircraft, was a high priority job which the Ministry of Aircraft Production would not let me leave.

So, the years rolled by without me giving any thought to wireless. I emigrated to Toronto, Canada in 1948, where I held a job as a draughtsman-estimator at a steel plant until 1959, when I left for the USA. My '59 Chevy was loaded to the roof when I headed out for Florida. Miami turned out to be a wee bit hot and humid for me (try it in August some time!), so I put Plan B into effect, and headed for California. I lived in Los Angeles, working for a steel plant again, this time as outside salesman calling on engineers, architects, and general contractors. I moved to Oakland early in 1961, and have been there ever since.

I started to get interested in electronics while still in Los Angeles, where I wired up an AM/FM tuner by Knight-Kit, of Allied Radio, Chicago (remember them?). I then enrolled in RCA Correspondence School, NY, taking Electronic Fundamentals followed by Television Servicing, and

finishing up in 1963. Then one day I spotted an ad in a magazine saying what a great life and job it was to be a seagoing radio officer; see the world and make good money, etc. This sounded good to me, so I hit the books, carried flash cards around in my pocket for about three months, studied code, and learned how to type simultaneously while hearing the signals through headphones. 20 wpm plain English and 16 wpm coded groups with one minute of solid, correct copy out of a 5 minute session was required (both sending and receiving) for the radiotelegraph commercial license, with no "fills" allowed after the 5 minutes was up. I used to copy press from WCC in NY at 1 a.m. at 25 wpm for practice. The extra 5 wpm was needed to overcome the intimidation of taking the exam at the FCC office on Battery Street in San Francisco. So what happened? I passed the theory and the receiving part of the code test, and blew it on the sending!!! About 6 months later, after practicing for about 2 hours a day, I finally made it, receiving my license in 1967. A year or so later, I got my amateur General class license.

I was assigned to my first ship, the Lurline, bound for Hawaii in 1968, but that is another story, maybe for later. Two things stand out for me in this: First, very few of the WOP/AGs that got in that early in the war made it through. They were stationed in the tail of those old Lancaster and Wellington bombers, and were the first ones to get shot up, usually. So, I feel fortunate to be able to tell this. The other thing... well, those aptitude tests given me back in 1941 turned out to be quite prophetic, even if it did take 26 years to materialize!

[This is Alan's first attempt at creative writing. It's great! The Blown Fuse welcomes more such articles - Ed.]

THE BASE STATION

Your Contra Costa Ham Radio Headquarters

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Wire Clamps	Trunk Mounts	Mic Plugs & Connectors
Mast Bases	Ball Mounts	PL-259's, & N Connectors
Egg Insulators	Gutter Mounts	Headphones
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Center Insulators	Code Practice Software	Scanner Frequency Books
Copper Wire	S.W.R. Meters	Scanner Antennas

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General Meeting Minutes

April 8, 1994

Sharon Primbsch, AA6XZ

The regular meeting of the East Bay Amateur Radio Club was called to order at 7:41 p.m. by President Fred Nieman, KC6VLL.

Fred suggested (seriously?) that perhaps on one hour notice some Friday night, we should go out for a weekend and live off our ready kits. This would serve two purposes: it would test our readiness for an emergency and it would rotate the food in the ready kits.

Club Station: Fred reported that the crab feed grossed \$2,095, that \$600 was outright donations, and that we cleared about \$1,500 on the event. It has been

estimated that it will cost at least \$2,300 (without electrical) to alter the club station at the Richmond Red Cross. Therefore, we are about halfway to our goal. John Ramsey of the Red Cross returns in mid-April, and we will then know what we can move out of the Red Cross' area in Annex A. We'll need a work party at that time, and it will be announced on the Thursday night ARES/RACES net.

Program: Kim Leong, WA6QQF, told us about his telephone-accessible computer bulletin board system. It's free, but donations are accepted. Its primary interest areas are law enforcement, amateur radio, and some computer graphics. The BBS gets about 100 calls per day. The busiest time is 6-10 p.m. The phone for the BBS is 799-2921. Use 8 bits, no parity, one stop bit, full duplex, and at least 1200 baud (the higher, the better) to get to it. It's menu driven and expects an ANSI terminal. There are more than 300 amateur radio files, including ARRL bulletins. All files are PKZIPped. Kim would like to see one file uploaded for every ten downloaded by any one person. The best protocol for file transfer is ZMODEM.

Antennas: Bob Uhrhammer reported on a suggestion for a W6CUS portable HF antenna(s). He suggested that the vast majority of contacts would be on 20 and 40 meters. He described a triangularly cross-braced 90-foot mast which could be put together on sawhorses on the ground and then raised with a gin pole. There could be a pulley or two at the top which could be used to raise full size loop antennas for 20 and 40 meters. An inverted Vee could be used for 80 meters.

Fred Nieman reported that there are still problems with the W6CUS-1 packet station.

The 220 MHz port is still ill. Diagnosis is still in the works.

The meeting was adjourned at 9:30 p.m. for raffle drawings.

Message from the President Fred Nieman, KC^{VI}LL

On April 27th, Ralph, W6EFD; Will, AA6VL; Leo, WA6ZFY; and I met with the officials of the Richmond Red Cross to discuss the enlargement of our radio room. They will ask for a work party in mid-June to clean out their materials from our new Annex B space. This will allow us to start working on the radio room expansion in the beginning of July, right after Field Day.

Speaking of Field Day, we'll have a "Ripley's Believe it or Not" 90-foot tower. Be sure to come to the next two meetings to divvy up the tasks and the goodies!

Treasurer's Report April, 1994 Gordon Parsons, NU6W, Treasurer

APRIL INCOME

Membership Renewal: N6DIG	\$20.00
Eagle's Club Refund.....	50.00
CIGNA Insurance Rebate	7.52
Coffee Kitty.....	26.40
Scratcher Tickets.....	13.00
Crab Feed Receipts (W6CUS).....	2,095.00
Total April Income	\$2,211.92

APRIL DISBURSEMENTS

Blown Fuse Printing	\$19.70
Blown Fuse Postage.....	35.96
Misc. W6CUS Hardware (H. Primbsch)	32.40
Pacific Bell (W6CUS)	12.79
World Radio Membership.....	60.00
Total April Disbursements.....	\$160.85

BANK OF THE WEST ACCOUNTS

Checking (General Fund)\$1,310.81
Savings (Station Fund)\$2,740.18

The March 19th Crab Feed was a very rewarding financial success. \$2,095 is the largest single deposit I've ever seen as club Treasurer in the past ten years in this office. This brings the special Building Fund to \$2,145.00. As reported by our President, we are about half way to where we need to be.

The CIGNA Insurance rebate check for \$7.52 is a rebate from Proposition 103 for the year 1988-1989. Thank you, California voters, for helping our club!

Remember to feed the Kitty!

Early June Deadline!

The June *Blown Fuse* will be a joint effort by me (Sharon) and David Brandon. Before May 9th, you can submit things to me. After that date, but *no later than May 23rd*, please give David your submissions. He can be reached at 845-9559. Many thanks, in advance, David, for helping me during my vacation!

ARES/RACES Net Controls

The following people have agreed to be Net Control for the Thursday ARES/RACES net. The month starts and ends at the second Friday of the month (the regular EBARC meeting night). We thank them all.

Dave Tyler: May-June
Doug Cain: June-July
Jamie Wasson: July-August
Barbara Grazer: August-September

Calendar?

Should *The Blown Fuse* carry a calendar of events of interest to hams? If so, a volunteer is needed to collect the events and be sure the items are submitted by the deadline. If you are interested in volunteering, please contact the Editor.

VE Test Session

The next EBARC-sponsored ARRL VEC test session will be held May 15th at the Alameda/Contra Costa Blood Bank, at 9:00 a.m. This is one of the tests that are now regularly scheduled for the third Sunday of every odd numbered month.

Another Goof...

In the April Fools article last month (*Local QRPer Busted!*), our fictitious QRPer would have been running 5,000,000 watts, not 5,000 watts. His microammeter (not a milliammeter) indicated he was getting 5 watts of power. Since power goes as the *square* of the current, he didn't get 1,000 times 5 watts, he got 1,000² (or 1,000,000) times 5 watts. Thanks for noticing Art McLaughlin, W6THD @#%&!!!

If you would like to get a nifty club badge with your call sign and name on it, contact Joe Lee, WB6DOB. Each badge costs \$4.50 (exact change or check).

If you want to get a club jacket, see Sam Watson, N6VIF, for details and prices. He'll need orders from at least ten people before he can order the jackets.



EBARC FIELD DAY

The "EBARC FIELD DAY" cartoon above was created by Ed Bear, KE6DVS to illustrate a joke by Leo Lewis, WA6ZEV.

[Who says EBARC members don't have talent? - Ed.]

If you want a knit, yellow golf shirt with the ARRL and W6CUS logos, contact Joe Lee, WB6DOB. You can order a shirt with your name and call sign embroidered over the front pocket. The approximate cost is \$21 each, with larger sizes extra. Joe will need orders from at least ten people before he can order the shirts.

The East Bay Amateur Radio Club, Inc., founded in 1947, is a California non-profit corporation comprised of amateur radio operators in Contra Costa and Alameda counties. The club is open to anyone interested in amateur radio. Annual dues are \$20 for individual membership and \$24 for a family membership. For information, call (510) 233-7509, contact any EBARC official, or write EBARC, P.O. Box 1393, El Cerrito, CA 94530. The East Bay Amateur Radio Club maintains a club station, W6CUS, at the Richmond Red Cross. The packet station, W6CUS-1, is on 145.790 Mhz, and is linked to the EAST BAY LAN (EBAY) on 223.720 Mhz.

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West Contra Costa County ARES/RACES Net	Thurs	1900	145.110
Northern Alameda County ARES Net	Thurs	1920	147.48s
Contra Costa Communications Club Net	Thurs	1930	145.110
Oakland ARES Emergency Communications Net	Thurs	1930 (PL 77)	146.880
"Over the Hill Gang" Breakfast/Commute Net	Mo-Fr	0710	145.110
Northern Calif. Net VHF Session	Daily	1930	145.410
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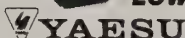
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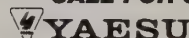
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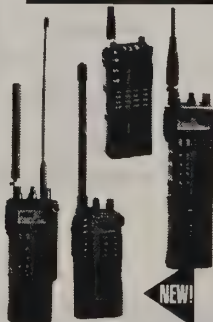
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THE EAST BAY AMATEUR RADIO CLUB, INC.

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THE BLOWN FUSE

CLUB STATION W6CUS

VOLUME XLVII NUMBER 6

JUNE 1994

Coming Events

June 10, 1994

7:00 p.m. ARES/RACES Meeting
7:30 p.m. EBARC Meeting
Program: Final Field Day Plans!



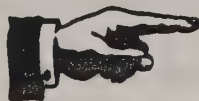
The East Bay Amateur Radio Club meets the second Friday of each month at the West County Times building, 4301 Lakeside Drive, Richmond. The Executive Board meets the first Friday of each month at 7:30 p.m. at the home of Mel Hurley, KC6FAW, 137 Purdue Ave., Kensington.



THE EAST BAY AMATEUR RADIO CLUB, INC.
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The Blown Fuse is published monthly by the East Bay Amateur Radio Club, Inc. and is free to its members. *The Blown Fuse* welcomes articles of interest to its members and amateur radio in general. *The Blown Fuse* reserves the right to edit or reject any material submitted. Material submitted becomes the property of *The Blown Fuse*. Permission is hereby granted to reproduce material printed herein provided proper acknowledgement is given. Editor: Sharon Primbsch, AA6XZ

Deadline for July issue: June 22

**An Interview with
Jim Loughridge, AA6ZA
by Sharon Primbsch, AA6XZ**

Jim Loughridge spent most of his early years in Colorado and Arkansas. When he was little, he always dreamed of being a pilot. So, in 1943, when he enlisted into the Army Air Corps, being a radioman was his last choice. His eyesight just barely kept him from becoming a pilot, but after watching aircraft mechanics toil in all kinds of weather, he thought being a radio operator wasn't such a bad deal after all.

Jim was in radio school about five months, and then spent 1-1/2 years of his military career in the air, as part of the training for



Jim Loughridge, Then and Now

glider pilots and paratroopers. At the time, the Army was losing air crews in Europe faster than they could be trained. Because of this, training went on 24 hours a day, 7 days a week.

When Jim wasn't doing training support, he was helping with troop and materiel transport. Most of this work was in C47 and C46 transport planes. He was scheduled to be part of a large paratrooper operation over Japan. They expected to lose 75% of the air crews in this operation. While waiting for the operation to begin, Jim visited most of the North Pacific islands, hauling "brass", troops, and gear. The atomic bombing of Japan intervened, so Jim's last assignment was to fly troops into Japan in advance of General MacArthur's arrival.

Jim was responsible for the upkeep of the radio gear and for reporting position (and sometimes weather) on long flights. The pilot would handle short range communications (i.e. with the control tower). The navigator would sometimes use the radio for LORAN. The rest was up to the radioman. Most of the long range communications was in HF CW, although there was some HF AM (amateur radio operators hadn't developed single sideband yet!).

The HF antenna on the planes Jim flew was a 200-foot reel of antenna wire with a 5 lb. lead weight at the end. Tuning the rig was very laborious. In addition to the normal tuning, you had to reel out the antenna, watching the current, until you were at the 3/4 wave point for the frequency you needed. On one Pacific Island stop, someone forgot to reel in the antenna before landing. The result was a 200-foot wire rat's nest with no lead weight. On the ground, Jim untangled the reel and fashioned a new weight with a beer can

filled with sand!

After three years in the Army, Jim returned to Rodeo. The thought of spending another four years going to college was too much, so he started his long career with Union Oil. He retired recently from his maintenance foreman position. About 34 years ago, Jim married his wife, Nora. They were introduced by his mother ("Mother knows best"). Of all the things he's done, Jim is proudest his wife, of the two boys they have raised (Jim Jr. and Bruce), and of their two grandchildren.

In spite of his service as a WW II radioman, Jim didn't become a ham right away. He was inspired by a friend and by his brother-in-law, who asked him to teach signaling to some Boy Scouts. He took his General test from the FCC in 1958, and is an Extra class operator today. His first rig was a Knight-Kit receiver kit, which he built. His favorite mode is CW, and he's still working on his DXCC. He has recently "bitten the bullet" to get into packet, and expects to be learning a whole bunch, real soon!

If you get a chance, ask Jim to show you his outstanding scrapbook, complete with "Sad Sack" cartoons. When not hamming, Jim enjoys the family's 5th wheel camper. He recently took a (non-camping) trip with his son to England and Germany. He's also interested in genealogy. There's a national organization of Loughridges (of many spellings). The family has been traced to the 1400s in Scotland. Jim has traced one of his grandmothers to 1500s Prussia. Now that's really old!

Alameda No-Code Class

A class begins June 13th at USCG Island, 1800-2000. If interested, get further information from David, KG6FR.

General Meeting Minutes

May 13, 1994

John Percival, WI6O

The regular meeting of the East Bay Amateur Radio Club was called to order at 7:46pm by President Fred Nieman, KC6VLL.

Guests: Margie Cernell (license pending), Dennis Jacobson N6NG, John S. Larson K6AUC, Ron Smith, Thomas A. Stephans (license pending), and Kham Vilaikam KD6KQD.

Upgrades: Members Donna Gillett and Jan Kuhl have passed Technician licence exams and are awaiting callsigns. Member Dan Seifers, KE6FGM, reports he upgraded to General in March.

Club Station: Fred reported on the Club Station remodeling project at the Richmond Red Cross. He said there have been about \$600 to \$800 of individual donations added thus far to the proceeds from the Crab Feed. Ralph Hall W6EFD and Dr. Mel Hurley KC6FAW are leading the station remodeling project. The Red Cross has said they should have the Annex space cleared out for us by July 1st. Bob Uhrhammer, WB6VEX, reported on the antenna project. We have a 50 foot fiberglass tower donated to the Club by Duke Campbell. Bob said we may be able to get up to 90 feet with extra masts added to the tower. Bob also mentioned that he is waiting to hear from the FCC about the application to put the Club's W6CUS callsign in his name. Fred said a computer has been donated to the Club by Chevron. The Digital Committee is looking at how we can make use of it in the W6CUS packet system.

Field Day: Field Day committee chairman Will Nance, AA6VL, led a discussion of

planning for our June 25-26 Field Day event. Fred said the City of Berkely and the Berkeley Marina Harbormaster have been contacted. Will says our status is now "go" to hold Field Day at the Berkeley Marina Waterfront Park. The ARRL information package and contest entry forms have been ordered. Security will be given high priority this year. For overnight parking, we will have signs to place in our cars. David Brandon will handle publicity this year. He asked for a volunteer to record a publicity announcement and Ed Bear, KE6DVS, offered to help. Rachel will be our food coordinator and she asked people to let her know at the June meeting what food items they can bring. It was suggested that we might try computerized logging this year. Final F.D. planning will be done at the June club meeting.

Miscellaneous: David Brandon, KG6FR, will fill in as Editor of The Blown Fuse for the June issue while Editor Sharon Primbsch AA6XZ is on vacation. Sam Watson N6VIF said he needs two more orders for jackets before he can place an order. The cost is \$40 to \$44 depending on size. Joe Lee said Club shirts can be ordered for about \$21 each, but he needs to have at least 6 to 10 orders. A VE exam session will be held Sunday May 15, 9 to 11am, at the Oakland Blood Bank.

Program Committee: Chairman Ray Gillett, KF6FU, asked members for possible program topics. There was a suggestion we should have a program about how to get started in packet radio. Ray asked if members might be interested in having a "swap night" where members could "rent" a table for a small fee to benefit the Club, and sell or swap radio equipment and parts. There were a number of members who indicated they would like to participate in such a program. Ray said the June meeting will focus again on Field Day and

he will plan a "Swap Night" for the July program.

The meeting was adjourned at 9:11pm for raffle drawings.

Treasurer's Report

May, 1994

Gordon Parsons, NU6W, Treasurer

MAY INCOME

New Members

Regular: Dennis Jacobson, N6N6,
William Kreuzlinger, N6ILD.....\$40.00
Family: Jan & James H. Kuhl, (no call)

..... 24.00
Membership Renewal: N6IHU \$20.00
Coffee Kitty.....17.10
Station Fund.....10.00
Raffle Ticket Sales 25.00
Station Bldg. Fund Donations..... 1,100.00
Total May Income..... \$1,226.10

MAY DISBURSEMENTS

Blown Fuse Printing \$39.40
Blown Fuse Postage..... 36.54
Total May Disbursements \$75.94

BANK OF THE WEST ACCOUNTS

Checking (General Fund)..... \$1,335.97
Savings (Station Fund)..... \$3,875.18

The W6CUS station building fund is growing nicely. We have \$3,245.00 to date, and should be ready to start the remodeling shortly. ***Please contact Fred Nieman about memorial designations.***

Remember to feed the Kitty!

Check out of antennas, cables, etc. for Field Day will be at the Club station, Sat. June 11 at 10:30 a.m.

What the H--- is a Decibel?

by Henry Primbsch, KK6PH

The decibel is a ratio or comparison between two things, usually power. Even when it seems to be used in the absolute sense, as in "this transmitter puts out 33 dBm", or "130 dB sound is painful", it still is a comparison between two quantities. By the end of this article those two statements will hopefully make sense

But first, here's a little history. Many years ago scientists conducted a lot of hearing experiments with people listening to various sounds. They determined that the minimum discernible difference in sound levels is 1.259. What does this mean? If you are listening to a tone from a public address system, and the system is putting out 1 watt, then for you to notice any change in volume at all, someone has to turn up the volume quickly to make the PA system put out 1.259 watts (an increase of 25.9 %). Because of the logarithmic (sorry about the big words) nature of our hearing, the same ratio applies if the PA is putting out 10 watts. That is, it would have to be increased to 12.59 watts before anyone could notice. At 100 milliwatts it would have to be increased to 125.9 milliwatts to get the same effect. At 10 watts it takes 2.59 watts to be noticeable, while at 100 milliwatts it only takes 25.9 milliwatts to be noticed. As you can see, our sensitivity to volume changes depends on the volume, but the ratio is the same each time. Some people can sense changes slightly less than this ratio while others can sense only larger changes, so the ratio of 1.259 is an average. This happens to be very close to the tenth root of 10.

A fun way to look at this is to take your calculator and multiply 1.259 by itself 10 times to get 10. The ratio 10 is called a Bel, and the ratio 1.259 is the decibel.

Other interesting exercises are to multiply 1.259 by itself 3 times and get a number very close to 2, and then another three times to get very close to 4, and (finally) another three times to get 8. Those numbers are respectively 3 decibels or dB, 6 dB, and 9 dB. The ratio 10 is, by definition, 10 dB. By the same reasoning, 13 dB is just 10 multiplied by 1.259 three more times to get a ratio of 20. A useful pattern is emerging here. When you add decibels you are multiplying the corresponding ratios. Let's look at 13 dB again. $10 \text{ dB} + 3 \text{ dB} = 13 \text{ dB}$ means a ratio of 10 multiplied by a ratio of 2 equals a ratio of 20. We already know what 3, 6, 9, and 10 dB mean, so let's look at some others. 20 dB means a ratio of 100. 30 dB means a ratio of 1000, and so on. Every time we add 3 dB we multiply the ratio by 2, and when we add 10 dB we multiply by 10.

What if nobody changed the volume? The ratio would be 1:1, and we would have nothing to notice. This corresponds to 0 dB. Suppose instead of turning up the volume, we turn it down? On the average, people will just start to notice the change when the volume drops to .794 watts from 1 watt. The ratio in this case is $1/1.259$ and corresponds to -1dB. Dropping it to $1/2$ gives us -3 dB, $1/4$ gives -6dB, $1/10$ or .1 gives us -10 dB and so on. For ratios larger than 1, positive decibels apply. For ratios smaller than 1, minus decibels are used. Below is a table of common dB values.

The decibel is very useful for expressing very large ratios, for example; the loudest sound we can stand is 10 trillion times the weakest sound we can hear. This is a ratio of 10,000,000,000,000 to one. Expressed in decibels, this ratio is 130 dB. Sound levels are quite often expressed in decibels as if they were absolute units, such as; a quiet whisper at 5 feet is 18 dB, an average

conversation at 3-1/2 feet is 70 dB, the noisiest spot at Niagara Falls is 92 dB, and the threshold of pain is 130 dB. These numbers are all ratios of sound power levels compared to the threshold of hearing. That is, a sound level of 0 dB is something that the average person can just barely hear in a very quiet room. This reference sound level is generally accepted to be .0000000000000001 watts/sq. cm of sound power.

Increase dB	Ratio	Decrease Ratio (Fraction)
3	2	.5 (1/2)
6	4	.25 (1/4)
9	8	.125 (1/8)
12	16	.0625 (1/16)
10	10	.1 (1/10)
20	100	.01 (1/100)
30	1000	.001 (1/1000)

Amplifier performance is often measured in decibels as the ratio of rf power out to rf power in. A positive dB figure here is good. Otherwise we have to call the amplifier an attenuator. Attenuators have gain figures expressed in negative dB values, since the output is less than the input and the power ratio is less than one.

Often rf and audio signal levels are measured in units of dBm. In these units the m stands for milliwatt which serves as the power level for comparison. A power level of 0 dBm then is 1 milliwatt, -30 dBm is 1/1000 of a milliwatt or 1 microwatt, while 30 dBm is 1000 times one milliwatt or 1 watt. I leave it as an exercise to determine how much power is meant by 33 dBm.

**Thanks for submitting material for
the Blown Fuse!**

Field Day Publicity and Outreach David Brandon, KG6FR

1. Richmond City Council will act on our request for a Amateur Radio Week Proclamation, Mon., June 6, 7 pm. **Any volunteers to attend this meeting or possibly other local council meetings when action will be taken?** It should be great for public relations.
2. Can we get a cadre of volunteers to guide visitors around our FD site and make sure they get all the info they need.?
3. Anyone have good (publishable) photos from last year?

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Disaster Services Conference

Oakland, Friday, June 17, 8:30-3:30

Call 510-987-4096. Please register before June 10.

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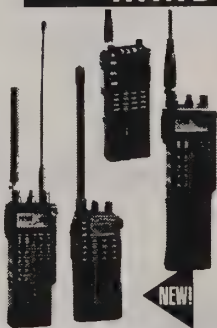
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THE BLOWN FUSE

CLUB STATION W6CUS

VOLUME XLVII NUMBER 6

JULY 1994

EBARC Meeting

JULY 8, 1994
7:30 p.m.

Ham & Electronics "Swap Meet"
(no Board meeting in July)

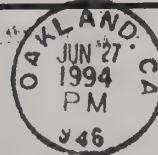


The East Bay Amateur Radio Club meets the second Friday of each month
at the West County Times building, 4301 Lakeside Drive, Richmond.
The Executive Board meets the first Friday of each month at 7:30 p.m.
at the home of Mel Hurley, KC6FAW, 137 Purdue Ave., Kensington.

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The Blown Fuse is published monthly by the East Bay Amateur Radio Club, Inc. and is free to its members. *The Blown Fuse* welcomes articles of interest to its members and amateur radio in general. *The Blown Fuse* reserves the right to edit or reject any material submitted. Material submitted becomes the property of *The Blown Fuse*. Permission is hereby granted to reproduce material printed herein provided proper acknowledgement is given. Editor: Sharon Primbsch, AA6XZ

Deadline for August issue: July 27

Design EBARC's QSL Card!

Sharon Primbsch, AA6XZ

With our newly-expanded club station nearly a reality, EBARC members have decided it's about time that we had a new club QSL card. Below is an example of an archaic one we now sometimes use.



One style of QSL card has one side blank, with a design and all the QSL information printed on the other. Another style is to have the entire front of the card as a design or photo, with possibly the club's call sign as the only additional information. In this case, all QSL information would have to fit on the back, leaving space for the recipient's address. Jamie Wasson, AB6WJ, (who does this for a living) has

volunteered to print photo QSL cards for the club at cost. She is bringing her camera to Field Day to get some pictures which may make a good QSL card.

The new design should have the W6CUS call and also a place for the operator's own call sign and name. The frequency, time, date, mode, and RS(T) are required. It's probably also a good idea to include our grid square, our address, and our county (anything else?). If you want to include the club's logo on the card, see the front of every *Blown Fuse* issue.

Some industrious souls have already submitted new QSL designs. The designs submitted so far will be brought to the July EBARC meeting. Bring your designs too, so we can talk about them all and generate even more ideas. We'll also need to look at the costs of photo vs. printing, one vs. two printed sides, and whether to use color.

Phase I of the EBARC Club Station Expansion

Mel Hurley, KC6FAW
Ralph Hall, W6EFD

As co-chairs of your club station expansion committee, we are happy to report that Phase I of the project is about to begin. Hopefully, the Red Cross should have its supplies out of Annex A by July 1st, allowing EBARC to proceed with construction.

With the consent of the EBARC Board, a "what" subcommittee is being formed to help decide such things as (but not limited to) what kind of construction and materials to use, whether there should be an attic, and what the layout of the space should be. This "what" subcommittee will advise us and the Board as necessary. Your "what"

committee members are: Leo Lewis, WA6ZFY; Harry Bier, WA6TNI; and Sam Watson, N6VIF. We thank them for volunteering.

We wish to emphasize that *everyone's* suggestions are welcome. Just contact either of us or a "what" subcommittee member with your ideas. We'd especially like to thank Will Nance, AA6VL, for his valuable input so far.

To take care of the "when" and "how" portions of the expansion, we need a pool of volunteer labor (that means you!). Please let either of us know what kind of work you're able to do, and give us some estimate of the days and times you are available. Work parties of two to four volunteers at a time will be called upon as needed during construction. We will have to schedule our work so as to avoid disturbing any Red Cross Activities.

We anticipate needing help first to install a new security door in the east wall of the new room. This will allow easy access (and security) for volunteers, tools, and construction materials for upcoming phases of the project. The next step will be to install an interior partition to separate our new area at the rear from the remaining Red Cross storage area. We will keep you posted!

General Meeting Minutes

June 10, 1994

John Percival, W16O

The regular meeting of the East Bay Amateur Radio Club was called to order at 7:45 p.m. by President Fred Nieman, KC6VLL. Fred introduced our newest member, Ron Smith, KE6HKQ, who lives in Pinole. Guests: Chuck Pride, Kham Vilaikam KD6KQD, and Rich, KD6JCT.

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Club Station: Ralph Hall, W6EFD, Chairman of the Club Station Expansion Committee, reported that he and Co-Chairman Mel Hurley, KC6FAW, had proposed to the Board that a special fund be set up to pay expenses as they arise during the construction project. Fred said \$500 has now been set aside to start a "revolving fund" for this use. Ralph also said we should have a "What" committee of members who have knowledge to advise in the selection of materials etc., during the project. He asked Harry Bier WA6TNI to serve, and Harry agreed. Sam Watson and Leo Lewis will also serve on the committee. The remodeling work at the Club Station will have to fit around the schedule of Red Cross activities. Ralph said "work parties" will be needed on occasion. We now have the funds and people ready to go on the

project, but we are waiting for the Red Cross to clear out Annex-A.

Social Committee: Our Social committee chairman, Vern AA6YE, announced a "Phonetics Contest" for the Club. He handed out a contest form for entries to be turned in at the July meeting. The object is to identify hidden call signs and names. *[See the reprinted contest in this issue - Ed.]*

Emergency Service: Rachel Lewellen, KB6LHR, E.C. for West County, said our group has been the only RACES group in the county to hold regular monthly meetings. She said these meetings, which have preceded the monthly EBARC meetings, will be discontinued for the rest of the year. We will continue to hold training sessions periodically. Rachel also announced that beginning with Thursday June 23, the West County RACES net will start at 6:45 p.m. instead of 7 p.m. This will give more time for local check-ins and net business prior to the county-wide RACES net.

Field Day: Field Day committee chairman Will Nance, AA6VL, conducted a discussion of our final plans for the June 25-26 Field Day event. *[Use the 145.511 repeater for coordination. - Ed.]* We will begin setup at noon on Friday, June 24th at the Berkeley Marina North Waterfront Park. Main points of discussion were as follows: - Rich KD6JCT, who will lead the security group, said they will have a table set up near the entrance to our area to meet people as they arrive. Rich showed a parking permit they have printed and arranged to place on the cars of our FD participants. He cautioned members that no parking will be allowed without the permit after 10 p.m. *[Security will monitor 145.680 simplex during Field Day - Ed.]* - It was decided that we should have a

VHF/UHF station this year. Paul Christian, KN6OJ will serve as Captain for VHF/UHF operation. - **Power:** Ralph W6EFD said the generator has been checked out. Arrangements for batteries have been made. - **Food:** Joe Lee WB6DOB asked for ideas for each of the four meals we will need. He warned members that it would be "hot-dogs and beans" unless people volunteered to bring more varied fare. - David KG6FR said we will have a FD preparation work party on Sunday June 12 beginning at about 10:30 a.m. at the Richmond Red Cross station.

Program Committee: Ray KF6FU said he had nine people signed up for the "swap night" program set for the July 8 meeting. In August, Ray has scheduled Jim Johnson, K6APW, to speak about the National Traffic System.

Miscellaneous: Blown Fuse editor Sharon AA6XZ asked what type of articles members would like to see in the Blown Fuse. It was suggested we could have "letters to the editor" in addition to interviews and technical articles. Sharon also said we are seeking ideas for our Club (W6CUS) QSL cards. She asked members to bring ideas to the July meeting.

The meeting was adjourned at 9:33 p.m. for raffle drawings.

Rare DX

Rare DX was heard on 147 MHz on the Yosemite Repeater. AA6YE (Vern) was on the air on May 5, 6, and 7. For those of you who availed yourself of this chance of a lifetime to speak *ON THE AIR* to our social chair, there is even more good news; Vern has a QSL manager--Joe Lee, WB6DOB. (Please send a SASE.)

Message from the President Fred Nieman, KC^{six}VLL

First of all, I would like to welcome each and everyone to Field Day 1994. Field Day is a lot of things; a contest, a camp-out, a social, and last, but most important, it is an exercise in emergency communications. We think of ham radio as a hobby, which it is, but from a licensing standpoint, it is a service to others. The government "loans" the Amateur Radio Service its frequencies to use during emergencies. If we wish to keep our frequencies, then we must continue to perform public service. Field Day is a practice for this service. Thanks, Will, AA6VL, for making it happen. Thanks also to the many people who came to the Club Station on Sunday, June 12th to help prepare for Field Day. We couldn't do it without you!

Because of the July 4th holiday, there will be no EBARC Board meeting July 1st. We'll see everyone at the regular meeting July 8th. Bring a friend, ham or not. The more, the merrier.

EBARC "Flea Market" in July Ray Gillett, KF6FU

Dust off that unused ham or electronic gear and bring it to the July EBARC meeting. The program this time will be a "Flea Market" swap. For a \$5.00 EBARC donation plus 10% of your "take", you can have a spot at a table to peddle your wares (or your unawares?). Bring money and some way to carry your treasures home. Important: What you don't sell or give away goes back home with you!

EBARC Phonetics Vern Orme, AA6YE

[This is a reprinting of Vern's much better original puzzle. The object is to identify people "A", "B", "C", and "I" by call sign and real name. Bring your entry to the July meeting for a possible prize. - Ed.]

Recently "A", "B", and "I" attended the Pacificon '93 in Concord. We enjoyed a relaxing trip to Concord and the weather was great there. We also enjoyed the flea market, the lectures, etc.

The most fun time was in the exhibition hall at the booth where interesting books were on display. "A" had a winning door prize ticket and selected a book about the famous New York Rockettes. I thought that this was an unwise selection, so I asked "A", "Why bother sixty dancing old blondes when you could have read all about six young engineers of amateur radio fame?"

"B", a person wanting to keep the peace, led us across the aisle to the World Radio booth. Happily, we ended up with ninety six international issues worth ninety six dollars for just ten dollars, plus the winning ticket (a good way to raise money for the EBARC treasury... we thought).

When leaving, we saw "C" and related to "C" the deal we made. "C" thought the deal stank and that we should have know better. Hex long handle rakes were given us. Why rakes? Why not rakes and shovels? Don't ask me. I don't know...

	CALL SIGN	REAL NAME
"A"	_____	_____
"B"	_____	_____
"C"	_____	_____
"I"	_____	_____

Treasurer's Report

June, 1994

Gordon Parsons, NU6W, Treasurer

[The June, 1994 Treasurer's report will appear in next month's Blown Fuse - Ed]

ARES/RACES News

Rachel Lewellen, KB6LHR,
West Contra Costa County
Emergency Coordinator

Starting the 23rd of June and until further notice, the West Contra Costa County ARES and RACES unit will hold the weekly Thursday net on 145.11 MHz repeater at 6:45 p.m. instead of 7:00 p.m. It is apparent that most of the time, this net hasn't finish in time for the Net Control to take the check-in count over to the 147.735 or 145.40 repeater before the 7:00 p.m. net begins.

There is an aggressive training program that the county Training Committee wishes to implement. There is not enough time to do this training at the 30-minute monthly meeting prior to the EBARC meeting the second Friday of each month. Our unit is the only one having regular monthly meetings. After questioning the members who attended the June meeting, I decided that we will not have a regular monthly meeting either, since we are going to be having training sessions coming up very often.

Thank you for reading this, and I hope you will continue to check-in on the Thursday night net (6:45!) for information of ARES and RACES importance.

Letters to the Editor

[By popular request, this is the first of what will hopefully be a regular, lively, column. This forum is an additional communication mechanism for EBARC members to express opinions on our club, and on hamming in general. Keep those "cards and letters" coming! - Ed.]

From David Brandon, KG6FR:

I have been a club member for a bit over two years now, and want to express my appreciation to the many fine people in the Club--and to the rest of you--for welcoming me and my family. The club has been my vehicle for re-entry into ham radio after a long gap. I am particularly happy with this year's focus on operating. I want to propose a couple of ideas for club activities: (1) workshops specializing in some facet of ham radio--as mundane as soldering connectors on coax or as complex as contesting. (2) operating activities such as running a special event station or participating in a contest other than Field Day. This sounds like fun, and I would like to see it done once a year, at least. Again, thanks to all the club members.

Thanks again to David Brandon, KG6FR, for doing last month's *Blown Fuse*.

Do a Good Deed!

Remember, a donation of at least \$100 to the EBARC building fund gets your name on a plaque in the club station!

EBARC has a new member, Ron Smith, KE6HKQ. Welcome Ron!

The East Bay Amateur Radio Club, Inc., founded in 1947, is a California non-profit corporation comprised of amateur radio operators in Contra Costa and Alameda counties. The club is open to anyone interested in amateur radio. Annual dues are \$20 for individual membership and \$24 for a family membership. For information, call (510) 233-7509, contact any EBARC official, or write EBARC, P.O. Box 1393, El Cerrito, CA 94530. The East Bay Amateur Radio Club maintains a club station, W6CUS, at the Richmond Red Cross. The packet station, W6CUS-1, is on 145.790 Mhz, and is linked to the EAST BAY LAN (EBAY) on 223.720 Mhz.

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EBARC SSB Net	Weds	2100	28.395
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West Contra Costa County ARES/RACES Net	Thurs	1845 (PL 82.5)	145.110
Northern Alameda County ARES Net	Thurs	1920	147.48s
Contra Costa Communications Club Net	Thurs	1930 (PL 82.5)	145.110
Oakland ARES Emergency Communications Net	Thurs	1930 (PL 77)	146.880
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Northern Calif. Net VHF Session	Daily	1930	145.410
"Going Home Group"	Mo-Fr	1600 (PL 82.5)	145.110



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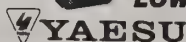
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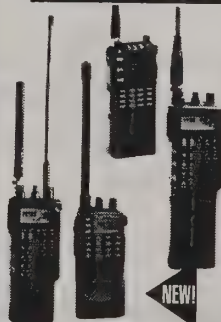


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100W out. (90W TS-60S, 50MHz only)
SSB, CW, AM, FM,
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105 db dynamic range, 100 Mems.
Optional external ant. tuners available (TS-50S only)
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HANDHELDS



IC-D1A

2M/440/1.2 Tri-Band

IC-W2A/IC-X2A

IC-W21AT, 2M/440

IC-21A, 2 meter

IC-24AT, Duo Band

IC-2SRA, 2M + Wide Rx

IC-2GXT, 2M

IC-T21A, 2M

ALINCO

DR-600T

2M/440 FM Transceiver



NEW!

45W/35W + Airband RX
Detachable/Removable Head
Keyboard freq. entry from microphone!
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NEW!

100W HF Gen Cov Transceiver
DDS, QSK • 500Hz CW Filter included
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TH-28A

2M/2.5W DTSS

240 Mem.

w/optional mem. unit
UHF RX



TH-22AT

Ultra Compact

2M HT, 5W optional

40 memories

Encode Built-In



IC-737

HF Transceiver



NEW!

12V 100W w/auto Ant. Tuner
Built-in Gen Cov. RX, 101 Mem.
DDS, QSK, Passband tuning
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THE BLOWN FUSE

CLUB STATION W6CUS

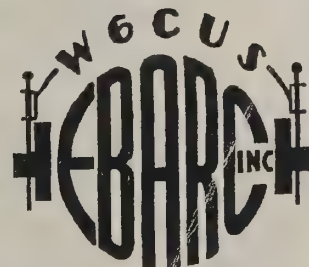
VOLUME XLVII NUMBER 8

AUGUST 1994

EBARC Meeting

AUGUST 12, 1994
7:00 p.m.

Speaker: Jim Johnston, K6APW
ARRL East Bay Section Traffic Manager



The East Bay Amateur Radio Club meets the second Friday of each month
at the West County Times building, 4301 Lakeside Drive, Richmond.
The Executive Board meets the first Friday of each month at 7:30 p.m.
at the home of Mel Hurley, KC6FAW, 137 Purdue Ave., Kensington.

THE EAST BAY AMATEUR RADIO CLUB, INC.
Post Office Box 1393
El Cerrito, CA 94530



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208 San Carlos Ave.
El Cerrito, CA 94530

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The Blown Fuse is published monthly by the East Bay Amateur Radio Club, Inc. and is free to its members. *The Blown Fuse* welcomes articles of interest to its members and amateur radio in general. *The Blown Fuse* reserves the right to edit or reject any material submitted. Material submitted becomes the property of *The Blown Fuse*. Permission is hereby granted to reproduce material printed herein provided proper acknowledgement is given. Editor: Sharon Primbsch, AA6XZ

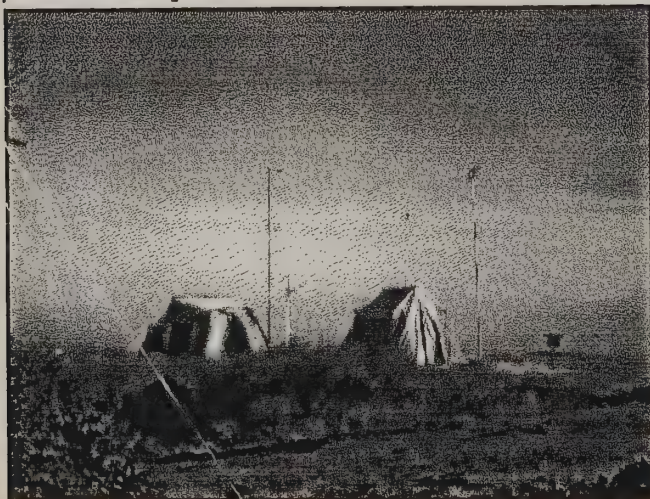
Deadline for September issue: Aug. 24

Field Day 1994 Results

Will Nance, AA6VL

Thanks to everyone who helped at this year's Field Day! Our total number of points earned was 2,348 (as compared to last year's 3,448). The CW tent earned 702 points (351 contacts), SSB earned 472 points, and the Novice tent earned 76 points (38 CW contacts). We earned all the bonus points we could have earned, except for a satellite contact (but that wasn't for lack of trying). Thanks everyone, for making it a success, yet again.

[Thanks also to Bob DeSilverio, KK6IJ, for providing this issue's Field Day digital photos. Ed.]



Message from the President

Fred Nieman, KC-VLL

Well Field Day 1994 is history. I think that all who came out had a good time. Lots of contacts, lots of food and lots of conversation. We didn't get the supper tall stuff tower up, but we did get a 500 foot long wire up on the tail of a kite. Thanks to all who did come out and for all the work that was done by the gang. A special thanks to Will for all his work as chairman.



Speaking of Will; he informed to club that will wishes to resign as Field Day Chairman and also Station Manager. I tried to talk him out of it, but we wants a vacation. I am now in the market for a New Station Manager and a Field Day Chairman for next year. The most pressing is the Station Manager job. So, if you are interested in doing either job, please call me.

The program for the last meeting was a swap meet. I would say that it was a success; so much so that it should be a least an annual event. Don't forget that if you have a program idea let ol' Ray, KF6FU, know.

See ya at the meeting. Remember, bring someone with you be he/she an old ham, a new ham, or a prospect.

73, Fred



General Meeting Minutes

July 8, 1994

John Percival, W16O

The regular meeting of the East Bay Amateur Radio Club began with a special program called "Flea Market-Swap Night". A Club business meeting was called to order at 8:20 p.m. by President Fred Nieman, KC6VLL.

Club Station: Ralph Hall, W6EFD, chairman of the Club Station Expansion Committee, reported that the remodeling project is "on hold" waiting for the Red Cross to remove their supplies from Annex A. There was concern expressed that organizational changes within the Red Cross may contribute to this delay.

Education: Henry Primbsch, KK6PH, reported that a new Novice/Technician license class will begin Monday, July 25th at the Richmond Red Cross Annex B. The classes will meet on Mondays and Wednesdays from 7 to 9 PM.

Field Day: Field Day committee chairman

THE BASE STATION

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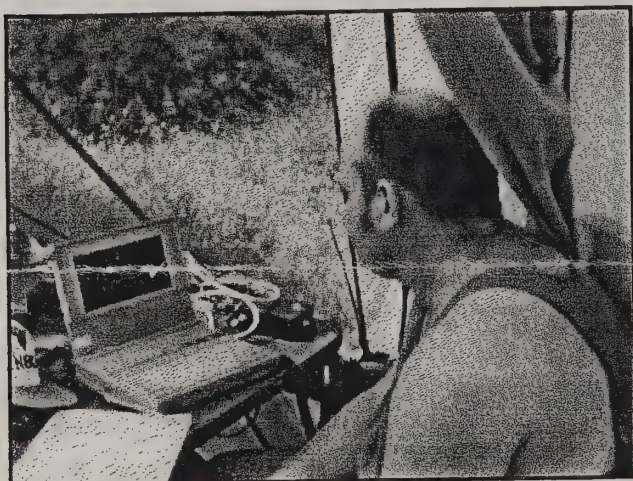


Will Nance, AA6VL, reported that Field Day went very well thanks to the help of so many volunteers. He gave special thanks to Rachel for leading the food supply team. He thanked Rich Parker, KD6JCT, for the great job by the security team. The Berkeley Marina Harbormaster was reported to be very impressed with how we conducted the security operation. Will thanked those who helped operate the CW station and gave special thanks to Bruce Wexler, K3MHD, who made many contacts through the night hours. Will asked that the Club give a certificate of appreciation to Bruce to recognize his efforts. Greg Small, KD6SXH, was thanked for his great job as captain of the Novice/Technician station. Single sideband captain John, W16O, said over 400 SSB contacts were made. He thanked those who operated and helped with the logging. Will announced that he wants to resign as Field Day chairman for

next year. Also, he wants to resign as chairman of the Club Station Committee.

Program Committee: Ray KF6FU said the August program has Jim Johnston, K6APW, scheduled to speak about the National Traffic System. Jim is the Section Traffic Manager for the East Bay Section of the ARRL. Ray thanked those who turned out for this first "swap night" event. He described some of the items offered for sale at the sellers' tables. An EICO HF rig for 80-40-20 meters, brought by Ralph Hall W6EFD, was sold at auction.

The business meeting was adjourned at 8:50 p.m. for continued swap night activity.



Novice/Tech Class

EBARC is sponsoring a Novice/Technician class on Monday and Wednesday evenings 7 to 9 p.m. at the club station, 3200 MacDonald Ave., Richmond. The first class started July 25th (with about 20 attendees) and ends after about 8 weeks. Instructors are Henry Primbsch, KK6PH; Jamie Wasson, AB6WJ; Noel Santos, AB6AC; and Kit Chantarotwong, KB6JZM. Call 741-8227 for more information. Pass the word to anyone you know who might wish to become a ham!



Treasurer's Report

June, 1994

Gordon Parsons, NU6W, Treasurer

JUNE INCOME

New Members: Ronald Smith KE6HKO, & Alexander Glikman AC6BJ.....	\$40.00
Membership Renewal: KC4WVL.....	20.00
Building Fund Donation: C. Baldo for Floyd Colvin, WA6KG	100.00
Coffee Kitty	16.50
Scratcher Tickets Sales.....	13.00
Station Fund	4.25
Total June Income.....	\$193.75

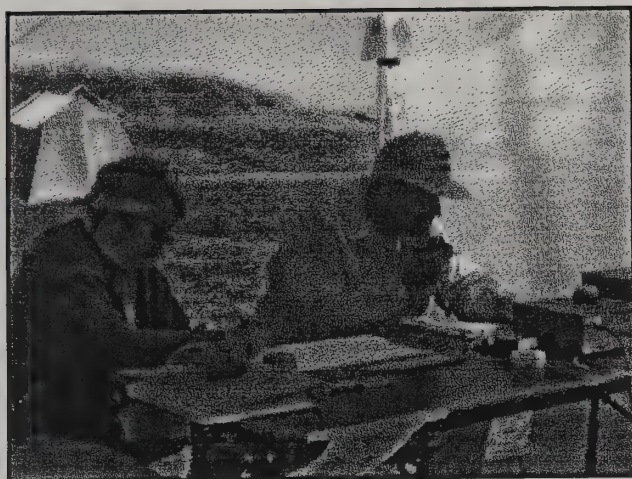
JUNE DISBURSEMENTS

Blown Fuse Printing	\$54.56
Blown Fuse Postage.....	32.19
Field Day Publicity.....	14.79
Mailing Labels	2.44
Pacific Bell (W6CUS)	12.87
Refreshments (April).....	11.48
Refreshments (June).....	11.73
Total June Disbursements	\$140.06

BANK OF THE WEST ACCOUNTS

Checking (General Fund).....	\$1,272.41
Savings (Station Fund).....	\$3,992.43

Remember to feed the Kitty!



Treasurer's Report

July, 1994

Gordon Parsons, NU6W, Treasurer

JULY INCOME

Membership Renewal: N6EAM &

KC6MPE (Pritikin)\$24.00

Ham Radio Outlet Advertising 60.00

Coffee Kitty 20.39

Flea Market Sales..... 172.25

Total July Income\$276.64

JULY DISBURSEMENTS

Blown Fuse Printing.....\$42.22

Blown Fuse Postage 27.84

Refreshments..... 11.53

Pacific Bell (W6CUS)..... 12.89

Field Day Supplies (W. Nance) 84.79

Field Day Supplies (R. Parker) 163.44

Total July Disbursements\$342.71

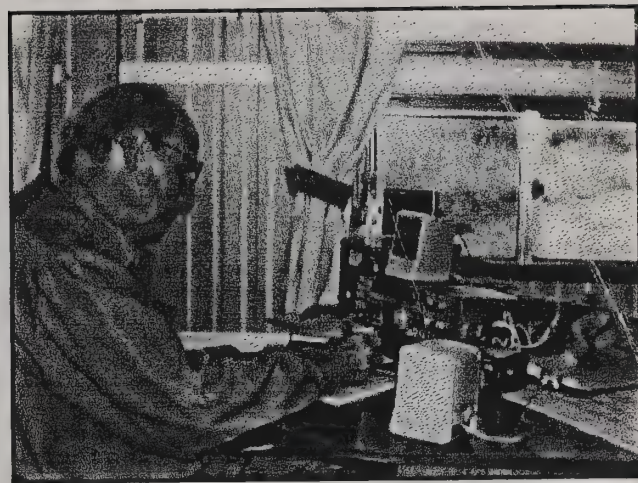
BANK OF THE WEST ACCOUNTS

Checking (General Fund)\$1,034.09

Savings (Station Fund)\$4,164.68

We have many 1993 Field Day patches available for sale. Why not get yours, if you haven't already? They sell for \$2.00 per patch. They look good on your EBARC jacket.

Remember to feed the Kitty!



FCC News from ARRL

Starting with licenses issued after June 8, 1994, the FCC is processing licenses in a manner to conform with the way in which it processes all other Private Radio Service licenses. Only new (first) licenses or specific renewals have a full 10-year term. Upgrades and changes of address, call sign, or name are processed with the original expiration date intact. That is, they are not automatically renewed for a new 10-year term. For those who have qualified, the new license will read "TECH PLUS" under Operator Privileges. People who became a Technician with HF privileges with a license begin date prior to June 8, 1994 must continue to retain their "Technician" license and "Certificate of Successful Completion of Examination" (CSCE) in order to show that TECH PLUS privileges are held.

The FCC has said it intends eventually to mail license expiration notices to amateurs. In the meantime, ARRL is sending license expiration notices to ARRL members, along with an FCC Form 610 and a return envelope addressed to Gettysburg, PA. Be sure to give the FCC at least 60 to 90 days to process your renewal 610 form!

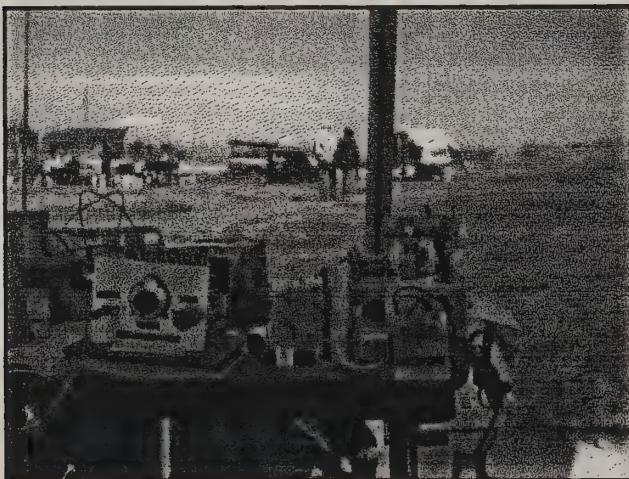


EBARC Phonetics

Since the July EBARC meeting was taken by the swap meet, Vern Orme, AA6YE, will be announcing the winner(s?) for the "EBARC Phonetics" contest at the August meeting. (See July's *Blown Fuse*.)

ICOM 375 For Sale

Gerry White, WB6IZE, is offering an ICOM 375 all mode 220 MHz rig for sale. It can put out 25 watts and comes with all manuals and a Hustler vertical antenna. It's in mint condition, hardly used. If you're willing to part with at least \$600 to get it, contact Gerry at 531-8639.



ARES/RACES News

Rachel Lewellen, KB6LHR,
West Contra Costa County
Emergency Coordinator

I will be out of town most of the month of August. I hope my operators will be able to carry on without me for the nets. If there's a problem, I'm sure others who have done this in the past will pitch in to help the new people. Remember, the Thursday night net starts at 6:45 p.m. local time. I'll announce on a Thursday night net who will fill in for me as temporary E.C. while I'm gone.

Letters to the Editor

[This is a reminder to send your comments, opinions, ideas, and stories to this column. Surely lots of us have something to say!]

Future Bay Area Events

- Livermore Swap Meet, 1st Sunday of each month at Las Positas College, 7 a.m. to noon, all year. Talk-in 147.045
- Foothill Swap Meet, 2nd Saturday, thru September, Foothill College, Los Altos
- Pacificon '94, Hilton Hotel, Concord, Oct. 21-23. For info, call 932-6125.

\$100 Donations

Remember, a donation of at least \$100 to the EBARC building fund gets your name on a plaque in the club station!

Keep Your Batteries Charged!

The East Bay Amateur Radio Club, Inc., founded in 1947, is a California non-profit corporation comprised of amateur radio operators in Contra Costa and Alameda counties. The club is open to anyone interested in amateur radio. Annual dues are \$20 for individual membership and \$24 for a family membership. For information, call (510) 233-7509, contact any EBARC official, or write EBARC, P.O. Box 1393, El Cerrito, CA 94530. The East Bay Amateur Radio Club maintains a club station, W6CUS, at the Richmond Red Cross. The packet station, W6CUS-1, is on 145.790 Mhz, and is linked to the EAST BAY LAN (EBAY) on 223.720 Mhz.

1993 EAST BAY AMATEUR RADIO CLUB EXECUTIVE BOARD

Fred Nieman KC6VLL, President.....	223-1748
Ray Gillett KF6FU, 1st VP - Program Chair.....	799-5221
David Brandon KG6FR, 2nd VP - Hospitality Chair.....	845-9559
Rachel Lewellen KB6LHR, 3rd VP - Membership / Publicity Chair / ARES/RACES EC- West Contra Costa County.....	233-5034
John Percival WI6O, Secretary	232-8111
Gordon Parsons NU6W, Treasurer / Finance Committee Chair...	785-4290
Ralph Hall W6EFD, Chief Elmer.....	232-0727
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Vern Orme AA6YE, Social Committee Chair	233-4504
Sharon Primbsch AA6XZ, Blown Fuse Editor.....	741-8227
Joe Lee WB6DOB, Awards Chair.....	724-0533
Dave Tyler N6DRT, Public Service Chair.....	525-6200
Bob Uhrhammer, W6CUS Trustee-designate.....	525-1447
Ray Gillett KF6FU, Chair, Digital and RFI Committees	799-5221
Will Nance AA6VL, Club Station Chair / Field Day Chair.....	524-9231
Harry Bier WA6TNI, Historian.....	372-6755
John Billones WD6GGC, Member-at-Large	237-1272
Doug Cain N6JNK, Member-at-Large.....	237-3294
Leo Lewis WA6ZFY, Member-at-Large	233-5034
Mel Hurley KC6FAW, Member-at-Large.....	526-2868

AMATEUR RADIO NETS

NET	DAYS	LOCAL TIME	FREQ, MHZ
EBARC Slow CW Net	Weds	2000	21.115
EBARC SSB Net	Weds	2100	28.395
EBARC UHF Net	Tues	1930 (PL 127.3)	444.450
West Contra Costa County ARES/RACES Net	Thurs	1845 (PL 82.5)	145.110
Northern Alameda County ARES Net	Thurs	1920	147.48s
Contra Costa Communications Club Net	Thurs	1930 (PL 82.5)	145.110
Oakland ARES Emergency Communications Net	Thurs	1930 (PL 77)	146.880
"Over the Hill Gang" Breakfast/Commute Net	Mo-Fr	0710 (PL 82.5)	145.110
Northern Calif. Net VHF Session	Daily	1930	145.410
"Going Home Group"	Mo-Fr	1600 (PL 82.5)	145.110

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Janel, WATWMB
Near Disneyland

OAKLAND, CA 94606
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(510) 534-5757
(800) 854-6046
Rich, WA9WYB, Mgr.
I-880 at 23rd Ave. ramp

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(619) 560-4900
(800) 854-6046
Tom, KM6K, Mgr.
Hwy. 163 &
Claremont Mesa

SUNNYVALE, CA 94086
510 Lawrence Expwy. #102
(408) 736-9496
(800) 854-6046
Tom, KB6LUC, Mgr.
Lawrence Expwy.
So. from Hwy. 101

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(800) 444-9476
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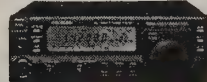
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HF Transceiver 6M



TS-50S - World's smallest HF transceiver
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SSB, CW, AM, FM,

12V Gen. Cov. RX, 6.4 lbs., 7.16 x 2.4 x 9.32"
105 db dynamic range, 100 Mem.

Optional external ant. tuners available (TS-50S only)

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IC-D1A

2M/440/1.2 Tri-Band

IC-W2A/IC-X2A

IC-W21AT, 2M/440

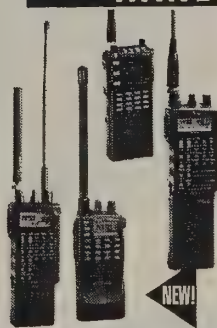
IC-21A, 2 meter

IC-24AT, Duo Band

IC-2SRA, 2M + Wide Rx

IC-2GXA, 2M

IC-T21A, 2M



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2M/440 FM Transceiver

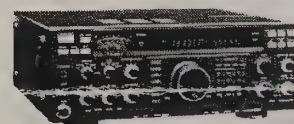


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w/optional mem. unit
UHF RX

TH-22AT

Ultra Compact

2M HT, 5W optional

40 memories

Encode Built-In



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Built-in Gen Cov. RX, 101 Mem.
DDS, QSK, Passband tuning

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THE EAST BAY AMATEUR RADIO CLUB, INC.

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THE BLOWN FUSE

CLUB STATION W6CUS

VOLUME XLVII NUMBER 9

SEPTEMBER 1994

EBARC Meeting

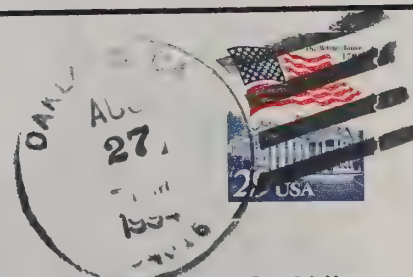
SEPTEMBER 9, 1994
7:00 p.m.

Program: Mini-Projects by
Members & QSL Design Party



The East Bay Amateur Radio Club meets the second Friday of each month
at the West County Times building, 4301 Lakeside Drive, Richmond.
There will be no Executive Board meeting in September.

THE EAST BAY AMATEUR RADIO CLUB, INC.
Post Office Box 1393
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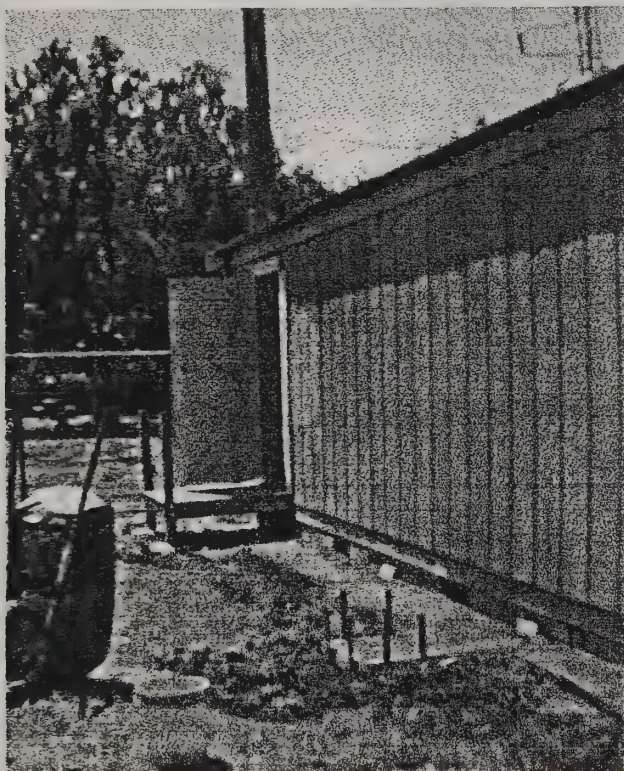
The Blown Fuse is published monthly by the East Bay Amateur Radio Club, Inc. and is free to its members. *The Blown Fuse* welcomes articles of interest to its members and amateur radio in general. *The Blown Fuse* reserves the right to edit or reject any material submitted. Material submitted becomes the property of *The Blown Fuse*. Permission is hereby granted to reproduce material printed herein provided proper acknowledgement is given. Editor: Sharon Primbsch, AA6XZ

Deadline for October issue: Sep. 28

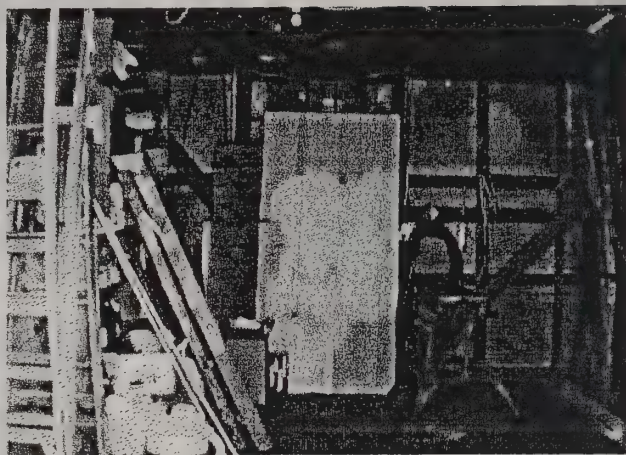
Club Station Progress!

Ralph Hall, W6EFD
Mel Hurley, KC6FAW

We are happy to report that on August 12th, the Richmond Red Cross removed most of their belongings from the portion of Annex A that is to become our club station



expansion. Since that time, we've made *lots* of progress.



On Saturday, August 13th, there was a meeting of the "What" committee: the two of us (Ralph and Mel) plus Sam Watson, N6VIF, and Leo Lewis, WA6ZFY. Harry Bier, WA6TNI, was unable to attend. We had able additional assistance from Henry Primbsch, KK6PH; Doug Cain, N6JNK; Fred Nieman, KC6VLL; and Rachel Lewellen, KB6LHR. The group met in Annex A and decided that plywood would be used on the floor, sheetrock would be used on the walls and ceiling, and there would be surface mount electrical conduit for power (as in the present club station). Thank you to everyone who participated.



As of the *Blown Fuse* deadline, there has been construction activity in Annex A

almost every day. The Red Cross left a cabinet and its contents. We moved it all to the other part of the building. We also removed a small partition. The new entrance door (from the outside) has been installed. The landing and handrail of the wheelchair ramp are complete, and the ramp itself will be complete well before the end of August

Wrong Name! Gerry White, WB6IZE

Several EBARC members asked me for the source of the Field Day Windom antennas. I remembered the wrong name. The correct name is Antennas West, Box 50062S, Provo, UT 84605. Order hot line is (801) 373-8425. Their ad appears on page 92 of the August 1994 issue of 73 *Amateur Radio Today*. The antenna model number is TNT. It costs about \$90 plus \$8 for shipping. Sorry for the inconvenience.

ARES/RACES News Rachel Lewellen, KB6LHR, West Contra Costa County Emergency Coordinator

The Wine Country bicycle tour was cancelled this year by its sponsors. There were not enough riders signed up to make it worthwhile. I know we all missed this opportunity to stay in practice with our communications skills.

For those of you who are new ARES/RACES members, there has been a delay in getting the identification badges. We hope to have them soon. A videotape is available for training new members. Just contact me if you wish to borrow it. Our West County unit will be doing ARES/RACES training soon. Listen to the

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Thursday evening net for the announcement.

On a Saturday in September, the Red Cross will give free classes in Mass Care and Shelter to hams. Although we might not participate directly in mass care, or in any other Red Cross activity, it's important that we understand their operations so we can help them in an emergency.

General Upgrade Class Henry Primbsch, KK6PH

If you are interested in a class to upgrade your license from Technician to General, please me. If there are enough people interested, we'll try to organize a class.

Request for History Sharon Primbsch, AA6XZ

Many EBARC member have been around longer than others. There must be lots of history floating around about ham radio in the East Bay, and about W6CUS and EBARC in particular. I'm planning a series of articles about our history. Please contact me with the memories, pictures, and written material I need to do it.

Future Bay Area Events

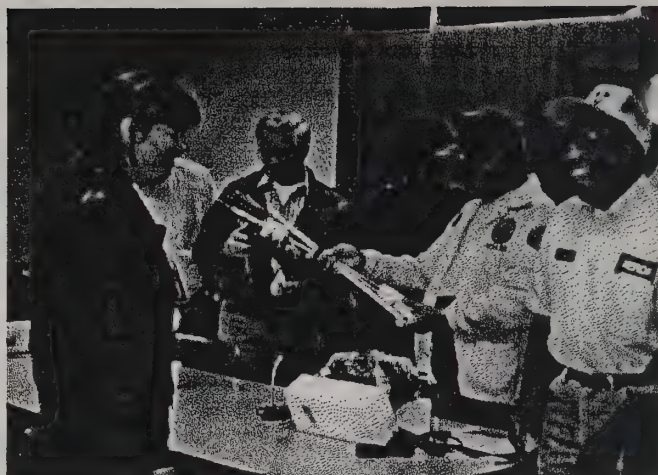
- Tri-Cities Safety Day, September 24th, El Cerrito Plaza. We'll need lots of help from EBARC members to put on a good display! For info contact Doug Cain, N6JNK.
 - Livermore Swap Meet, 1st Sunday of each month at Las Positas College, 7 a.m. to noon, all year. Talk-in 147.045
 - Foothill Swap Meet, 2nd Saturday, thru September, Foothill College, Los Altos
 - Pacificon '94, Hilton Hotel, Concord, Oct. 21-23. For info, call 932-6125.
-

Project Night

Bring your mini-projects to the meeting September 9th, to share with the rest of us. We'll also have a session to work on the design for a new W6CUS QSL card. Bring your ideas and any photos you may have taken at Field Day.

Keep Your Batteries Charged!

[The photos on this page are from the EBARC "Swap Night" held in July. Ed.]



The East Bay Amateur Radio Club, Inc., founded in 1947, is a California non-profit corporation comprised of amateur radio operators in Contra Costa and Alameda counties. The club is open to anyone interested in amateur radio. Annual dues are \$20 for individual membership and \$24 for a family membership. For information, call (510) 233-7509, contact any EBARC official, or write EBARC, P.O. Box 1393, El Cerrito, CA 94530. The East Bay Amateur Radio Club maintains a club station, W6CUS, at the Richmond Red Cross. The packet station, W6CUS-1, is on 145.790 Mhz, and is linked to the EAST BAY LAN (EBAY) on 223.720 Mhz.

1993 EAST BAY AMATEUR RADIO CLUB EXECUTIVE BOARD

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Ray Gillett KF6FU, 1st VP - Program Chair.....	799-5221
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Rachel Lewellen KB6LHR, 3rd VP - Membership / Publicity Chair / ARES/RACES EC- West Contra Costa County	233-5034
John Percival W16O, Secretary	232-8111
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Ralph Hall W6EFD, Chief Elmer.....	232-0727
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Harry Bier WA6TNI, Historian.....	372-6755
John Billones WD6GGC, Member-at-Large	237-1272
Doug Cain N6JNK, Member-at-Large.....	237-3294
Leo Lewis WA6ZFY, Member-at-Large	233-5034
Mel Hurley KC6FAW, Member-at-Large.....	526-2868

AMATEUR RADIO NETS

NET	DAYS	LOCAL TIME	FREQ, MHZ
EBARC Slow CW Net	Weds	2000	21.115
EBARC SSB Net	Weds	2100	28.395
EBARC UHF Net	Tues	1930 (PL 127.3)	444.450
West Contra Costa County ARES/RACES Net	Thurs	1845 (PL 82.5)	145.110
Northern Alameda County ARES Net	Thurs	1920	147.48s
Contra Costa Communications Club Net	Thurs	1930 (PL 82.5)	145.110
Oakland ARES Emergency Communications Net	Thurs	1930 (PL 77)	146.880
"Over the Hill Gang" Breakfast/Commute Net	Mo-Fr	0710 (PL 82.5)	145.110
Northern Calif. Net VHF Session	Daily	1930	145.410
"Going Home Group"	Mo-Fr	1600 (PL 82.5)	145.110

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Rich, WA9WYB, Mgr.
I-880 at 23rd Ave. ramp

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(619) 560-4900
(800) 854-6046
Tom, KM6K, Mgr.
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Claremont Mesa

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(408) 736-9496
(800) 854-6046
Tom, KB6LUC, Mgr.
Lawrence Expwy.
So. from Hwy 101

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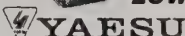
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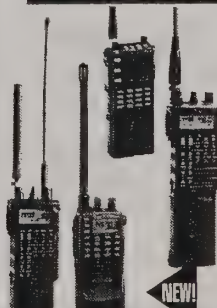
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IC-2GXAT, 2M

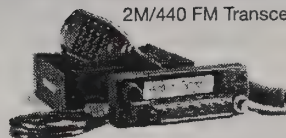
IC-T21A, 2M



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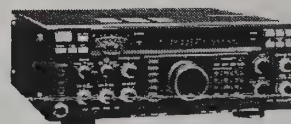


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CLUB STATION W6CUS

VOLUME XLVII NUMBER 10

OCTOBER 1994

EBARC Meeting

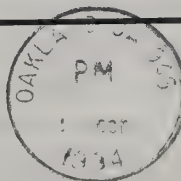
OCTOBER 14, 1994
7:00 p.m.

Program: To Be Announced

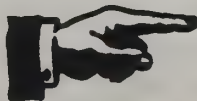


The East Bay Amateur Radio Club meets the second Friday of each month
at the West County Times building, 4301 Lakeside Drive, Richmond.
The Executive Board meeting Oct. 7th, at 7:30 p.m. will be held
at the home of Fred Nieman, 615 Rincon Rd., El Sobrante, 223-1748.

THE EAST BAY AMATEUR RADIO CLUB, INC.
Post Office Box 1393
El Cerrito, CA 94530



FIRST CLASS MAIL



Robert C. Hughes, N6SPY
238 San Carlos Ave.
El Cerrito, CA 94530

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The Blown Fuse is published monthly by the East Bay Amateur Radio Club, Inc. and is free to its members. *The Blown Fuse* welcomes articles of interest to its members and amateur radio in general. *The Blown Fuse* reserves the right to edit or reject any material submitted. Material submitted becomes the property of *The Blown Fuse*. Permission is hereby granted to reproduce material printed herein provided proper acknowledgment is given. Editor: Sharon Primbsch, AA6XZ

Deadline for November issue: Oct. 26

Tri-City Safety Day Doug Cain, N6JNK

Tri-City Safety Day was held on September 24th at the El Cerrito Plaza shopping center. Participating again this year were police, fire, and medical units from El Cerrito, Albany, Kensington, and Richmond. There were also units from the CHP. The Medi-Vac helicopter "dropped in" for a brief visit. We also had a demonstration of the "Jaws of Life", a ripping good show!



EBARC members and other hams showed up with various pieces of ham and ham related gear. Home-brew QRP was ably

demonstrated by John Billiones, WD6GGC. Henry Primbsch, KK6PH, had a packet station. Ray Gillett, KF6FU, brought his ATV gear. Kham, KO6FG demonstrated VHF and UHF. Lastly, I manned a CW HF station. Antennas were erected in record time by Joe Lee, WB6DOB; Vern Orme, AA6YE; Ray, KF6FU; Henry, KK6PH; and Kham, KO6FG. Also on hand were Donna Gillett; Jack Whitlock, KA6NQJ; Todd Myers, KE6AXC, Robby Robinson, N6MNL; and Ron Smith, KE6HKQ. [Thank you Henry, KK6PH, for the photos accompanying this article - Ed.]



Message from the President Fred Nieman, KC6VLL

Time flies when you're having fun, and that is what happened last month. Our editor is a very busy lady. So if you want to put something in *The Blown Fuse*, then pay attention to her deadlines. Heaven knows she puts in a lot of time for the group, and we need to help her by being ahead of her deadlines [tnx, Ed.]. Yes Sharon, I know that means me too.

HELP!!!!!!! We need a new home. The West County Times has decided that their room will be open for groups during normal business hours only. So we need a new

home as of December. Social Committee, we need a new Christmas party location.

If this letter seems a little weird, then you should see it through my eyes. Today is the first day of bifocals. As they said in the olden days, "What a trip."

If you get a chance, drop by the Red Cross and look a Phase One of the new radio room. Ralph and Doc with the help of couple of others (tanks Doug and Sam) have done a *great* job. They could use some help, so stop by and offer.

"Tanks" FU for running the last meeting, as I was looking for the 40th hour of a 24 hour day.

See ya at the next meeting and bring a friend. Board members: The next meeting for you is at my house.

see ya! 73s, Fred

General Meeting Minutes

August 12, 1994

John Percival, W16O, Secretary

The regular meeting of the East Bay Amateur Radio Club was called to order at 7:39 p.m. by President Fred Nieman, KC6VLL. Fred introduced our newest member, Lloyd Albright, KE6IAJ. Emergency Service: Rachel Lewellen, KB6LHR, EC for West County, said no events or RACES training classes are scheduled at this time. She said the Red Cross will be giving some disaster service classes in September. Information about these classes will be announced when it is available. Doug Cain N6JNK, will fill in as EC during Rachel's vacation this month. Doug said that EBARC is invited again this year to the Tri-City Safety Day on Saturday,

September 24th. Rachel mentioned that the Wine Country bike ride was canceled due to insufficient participant interest. Education: Henry Primbsch, KK6PH, thanked Jamie Wasson, AB6WJ, for doing a good job teaching Code at the new Novice/Technician license classes. The classes are continuing to meet on Mondays and Wednesdays from 7 p.m. to 9 p.m. at the Richmond Red Cross, Annex B. Club Station: Ralph Hall, W6EFD, chairman of the Club Station Expansion Committee, reported that the remodeling project is finally getting started. He said we were asked to help the Red Cross move supplies out of Annex-A on Thursday, August 11th. Ralph says as of today, Aug. 12th, Annex-A is about 90% cleared. Work can start soon on the remodeling, beginning with installation of a new door.

President Fred said he has been looking for a new Club Station Committee Chairperson and has asked Ralph Hall if he would accept an appointment to serve as "chief operator" for the station. Ralph spoke to the members about his feelings on this and outlined things he would do as Club Station Committee chair. At the top of his agenda would be "cleaning house" to eliminate items we do not need. Ralph said he would be willing to serve if members could go along with his plans. The members present expressed a favorable response, and Ralph accepted the appointment.

Miscellaneous: Joe Lee says our picnic is now tentatively set for Miller Knox Park on the Sunday after our meeting in October. Harry, WA6TNI, said the WA6QQF repeater is now up again covering the Martinez area, on 444.450 MHz, with 107.2 Hz PL. Harry said our members are most welcome to use this repeater. It was mentioned that this is the same frequency as the 'QQF repeater we have been

associated with, but the PL's are different (127.3 Hz for the west side repeater). Sam Watson described the raffle prizes and said shirts and jackets can be ordered, but a minimum of 5 orders are needed.

Program: Ray KF6FU introduced our speaker Jim Johnston, K6APW, on the subject of the National Traffic System. Jim is the Section Traffic Manager for the East Bay Section of the ARRL. Jim compared ARES traffic and regular NTS traffic. He used viewgraph transparencies to describe the standard radiogram message form and explain the NTS regions. Joe Lee also participated in the presentation by explaining how traffic is routed across the country, and describing net operating procedures. Jim and Joe stressed the rewarding aspects of traffic handling, and invited people to give it a try.

The meeting was adjourned at 9:33 p.m. for raffle drawings.

General Meeting Minutes September 9, 1994

John Percival, W16O, Secretary

The regular meeting of the East Bay Amateur Radio Club was called to order at 7:30 p.m. by First Vice President Ray Gillett, KF6FU. Ray welcomed our members and guests and asked that people let him know how they like the program for tonight. Guest: Gary Britton, KE6CQP. Treasurer: Gordy Parsons, NU6W, said Al Streit KG6HF, has been doing our taxes for many years now with no charge for his service. Our returns for this year are now done and filed. Al would have to charge \$100 in the future. Gordy suggested that we pay Al for this service. John Billiones, WD6GGC, made a motion to pay Al for his tax advice and help with

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returns. The motion was seconded and passed. Secretary: Minutes of the August meeting will be published in the October *Blown Fuse*. Club Station: Ralph Hall, W6EFD, cochairman of the Club Station Expansion Committee, reported status of the remodeling project. He said the new door and wheelchair access ramp are complete and the inside east wall has been covered. Ralph estimated that 181 man-hours have been put into the project thus far. Also, since many materials used thus far have been donated, project expenses have remained low. Ralph said there will be a continuing need for help with the remodeling work. Education: Henry Primbsch, KK6PH, said the Novice & Technician license classes have gone very well and are nearly finished. A VE test session will be given on Sept. 18th, 9 a.m. at the Oakland Blood Bank. Emergency Service: Rachel Lewellen, KB6LHR, EC for

West County, said she is setting up a new phone tree, and she asked for volunteers to serve as head of the tree in each city or community. She said there will be a training session in October at the Contra Costa Water District building in Concord. The date for this class will be announced on the nets. Doug reminded members that EBARC is invited again this year to the Tri-City Safety Day from 9 a.m. to 4 p.m., Saturday, September 24th. Doug asked for help to get our publicity display effort organized. Social Committee: Vern Orme, AA6YE, announced the winners of the "EBARC Phonetics Contest" published in the July *Blown Fuse*. Vern declared both Ron Smith KE6HKQ, and Ray KF6FU as winners. Vern said our picnic is now set for Miller Knox Park on Sunday Oct. 16th. Joe Lee asked people to bring a side dish to supplement the items the Club will provide. Further details about the Picnic will be given in the October issue of *The Blown Fuse*.

Miscellaneous: Fred Nieman, KC6VLL, said he still has Pacificon tickets (Oct. 21-23) at \$3 each. David Brandon, KG6FR, said that there was a QST article (Sept. issue) about the 1994 School Club Roundup with mention of our club. Club QSL Design: Sharon Primbsch, AA6XZ, is leading the effort to design a new QSL card for the Club. She used overhead transparencies to show the existing card we have used and also some example design ideas that have been suggested. Sharon asked members to give her their ideas for a card design.

Program: Ray KF6FU introduced a "Homebrew Project" show and tell program in which members described ham radio projects they have built. John Billiones, WD6GGC, showed his "Cubic Incher" QRP transmitter based on an *ARRL Handbook* project, and displayed the output waveform

on an oscilloscope. Bob Smith, KD6FVI, showed a QRP rig he built from a design by Wayne Burdick. It is called the "Nor-Cal special" and features a superhet receiver and one to two watt output. Bob also had a frequency counter he built from an S&S Engineering kit. Ron Smith, KE6HKQ, showed several projects he has built, including a 2M ground plane vertical antenna, T-Hunter's attenuator tube that was featured in QST, and an antenna tuner for HF receiving. Joe Lee WB6DOB, described a 12 volt power adapter box he built for mobile use and a dipole antenna center insulator he built from PVC pipe parts. Leo Lewis, WA6ZFB, described the construction of two antennas, a log periodic yagi and a 4-element Quad for 2 meters. Henry Primbsch, KK6PH, gave a short talk based on his research and experience with NiCad batteries. He spoke about a method for charging NiCads with a charger circuit featured in the Sept. '94 QST.

The meeting was adjourned at 9:23 p.m. for raffle drawings.

Club Station Construction

Ralph Hall, W6EFD

The access ramp and landing at the club station's new exterior door is in place, all due to the generosity of Mel Hurley, KC6FAW. The plywood backing on all four walls has been installed. All of the 3/4-inch plywood subflooring has been laid. All of the ceiling joists are also in place. A sample hole cut in the wall between the two rooms shows that the new room is about 4 inches lower than the existing room. Therefore we'll have one step between them. On September 28th, 31 bags of concrete were poured to bridge the gap between the blacktop and the new access ramp.

Pacificon 94
Sam Lipson, KE6BPB
Mount Diablo Amateur Radio Club

Pacificon 94 will be held on Friday through Sunday, October 21 - 23, at the Concord Hilton Hotel (Diamond near Willow Pass, Concord, CA). Sponsored by the Mount Diablo Amateur Radio Club, Pacificon 94 events will include technical sessions, a swap meet, vendor exhibits, T-hunt, VE testing, the Wouff-Hong Ceremony, foot and fanny contest, drawing and raffles, a bus tour, and the Pacificon Banquet. Admission tickets are \$3.00 in advance and \$5.00 at the door. For more information, contact; Pacificon 94, P.O. Box 272613, Concord, CA 94527 or call (510) 932-6125.

ARES/RACES News
Rachel Lewellen, KB6LHR,
West Contra Costa County
Emergency Coordinator

Thanks to everyone who participated in Tri-City Safety Day, September 24th. It was good practice. I know we'll all be ready for the next emergency!

VEs Wanted!
Allen T. Smith III, AA6UX

The EBARC-sponsored Volunteer Examiner team that conducts Amateur Radio test sessions is looking for more Volunteer Examiners. Our team currently has about nine members, who perform various tasks at ham test sessions. Unfortunately, not all of these people are able to attend every test session. In order to lighten the tasks for those who *do* participate, we need additional assistance.

Our team holds a test once every other month for all classes of licenses. Test sessions last about four hours. Anyone holding a general class license or higher is eligible for ARRL VE accreditation. If you are accredited by another VE (non-ARRL), instant accreditation by the ARRL is available. If you're not accredited at all, it's as simple as passing a short, simple, open-book test. Anyone interested should contact me at (415) 431-4133.

Fall Picnic Canceled
Vern Orme, AA6YE

Due to scheduling difficulties, there will be no Fall EBARC Picnic this year. The picnic had been scheduled for Sunday, October 16th. The Social Committee will plan an activity next Spring, instead.

Membership Problems?
Sharon Primbsch, AA6XZ

With this issue, I have taken over the EBARC membership duties from Rachel Lewellen, KB6LHR. I'll try to do as good a job as she has done. Please examine your label on the front of this *Blown Fuse*. If I've mangled your name, call sign, or address, please contact me. If you know of someone who should have received this issue, but didn't, please have that person contact me, also. Thanks a ton, Rachel for faithfully producing our mailing labels until now!

For your 1995 renewal, we'll be asking you to tell us what else you do in life for fun, work, travel, or hobby. (There *is* more to life than ham radio, or is there?) This will help us get to know each other better!

Treasurer's Report

August, 1994

Gordon Parsons, NU6W, Treasurer

AUGUST INCOME

New Member: Lloyd Albright, KE6IAJ	\$5.00
W6CUS Station Fund Donation, KG6FR	100.00
Earphone/Booth Sales (HC2EC/KC6WAZ)	60.00
Raffle	24.00
Coffee Kitty	13.21
Base Station Check (8/16/94)	18.00
Total August Income	\$220.21

AUGUST DISBURSEMENTS

Blown Fuse Postage	\$34.32
Blown Fuse Printing	43.62
Building Construction Pre-Expenses	500.00
Building Construction Expenses	400.82
Secretary of State (filing fee)	5.00
Pacific Bell (W6CUS)	12.82
Total August Disbursements	\$996.58

BANK OF THE WEST ACCOUNTS

Checking (General Fund)	\$974.54
Savings (Station Fund)	\$3447.86

Remember to feed the Kitty!

Treasurer's Report

September, 1994

Gordon Parsons, NU6W, Treasurer

SEPTEMBER INCOME

1995 Renewals: Fred Sill, KA6KZT; R.C. Smith, KD6FVI	\$40.00
ARRL Renewal: KD6FVI	30.00
W6CUS Building Fund: KA6KZT	20.00
Coffee Kitty	20.75
Total September Income	\$110.75

SEPTEMBER DISBURSEMENTS

Blown Fuse Postage	\$35.96
Blown Fuse Printing	29.55
W6CUS Construction Expenses	271.34
Misc. Expenses: D. Brandon	22.78
ARRL Renewal: KD6FVI	28.00
Pacific Bell (W6CUS)	14.84
Total Sept. Disbursements	\$402.47

BANK OF THE WEST ACCOUNTS

Checking (General Fund)	\$934.16
Savings (Station Fund)	\$3,196.52

Our building remodeling has begun finally, but we still need more donations for the building fund. Please make a generous donation, because we are building a first-rate radio station that serves an important organization -- your American Red Cross.

A special thank you to Mel Hurley for his generous donation for the construction of the wheelchair ramp. This will allow many future "handi-hams" to use our facilities.

Remember to feed the Kitty!

Future Bay Area Events

- Livermore Swap Meet, 1st Sunday of each month at Las Positas College, 7 a.m. to noon, all year. Talk-in 147.045 Mhz. For more info, call Noel, KC6QZK, (510) 447-3857, evenings.
- Pacificon '94, Hilton Hotel, Concord, Oct. 21-23. For info, call 932-6125.

[Due to the unusual length of this issue, the page listing Board members and nets is being omitted to save printing costs - Ed.]

— FLASH! NOW 12 STORE BUYING POWER! —



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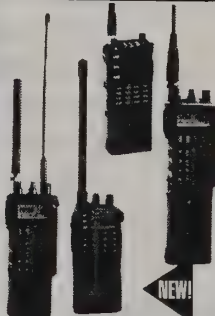
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THE BLOWN FUSE

CLUB STATION W6CUS

VOLUME XLVII NUMBER 11

NOVEMBER 1994

EBARC Meeting

November 11, 1994
7:00 p.m.

Speaker: Kit Chantarotwong, KB6JZM
"Towers for Amateur Radio"
and
EBARC Officers' Election



The East Bay Amateur Radio Club meets the second Friday of each month
at the West County Times building, 4301 Lakeside Drive, Richmond.
The Executive Board meets the first Friday of each month at 7:30 p.m.
at the home of Mel Hurley, KC6FAW, 137 Purdue Ave., Kensington.

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POSTMASTER:
Address Correction Requested

The Blown Fuse is published monthly by the East Bay Amateur Radio Club, Inc. and is free to its members. *The Blown Fuse* welcomes articles of interest to its members and amateur radio in general. *The Blown Fuse* reserves the right to edit or reject any material submitted. Material submitted becomes the property of *The Blown Fuse*. Permission is hereby granted to reproduce material printed herein provided proper acknowledgment is given. Editor: Sharon Primbsch, AA6XZ

Deadline for December issue: Nov. 22

[Articles can be submitted to the W6CUS packet bulletin board's AA6XZ mailbox, by dialing in to the editor's computer, by dictation over the 'phone, or by e-mail to primbsch@cmsa.berkeley.edu.]

Message from the President

Fred Nieman, KC6VLL

Well, I have some good and some not so good news, so let's *not* save the best for last. On the good side, the new station is moving with **Great Gusto**. Now we need inspectors. Take a little time out, and go see the new room.

Speaking of new room, we still need one for the first of the year. Look around before the next meeting, and see if you know where we can meet next year.

I was about to ask Harry, WA6TNI, to help with the hunt for new officers, but his heart had a better idea. He gave us a scare, but he's now on the road to recovery. Heck, I saw him at Pacificon, and he looks fully recovered. It goes to show you, you can't keep a good man down!

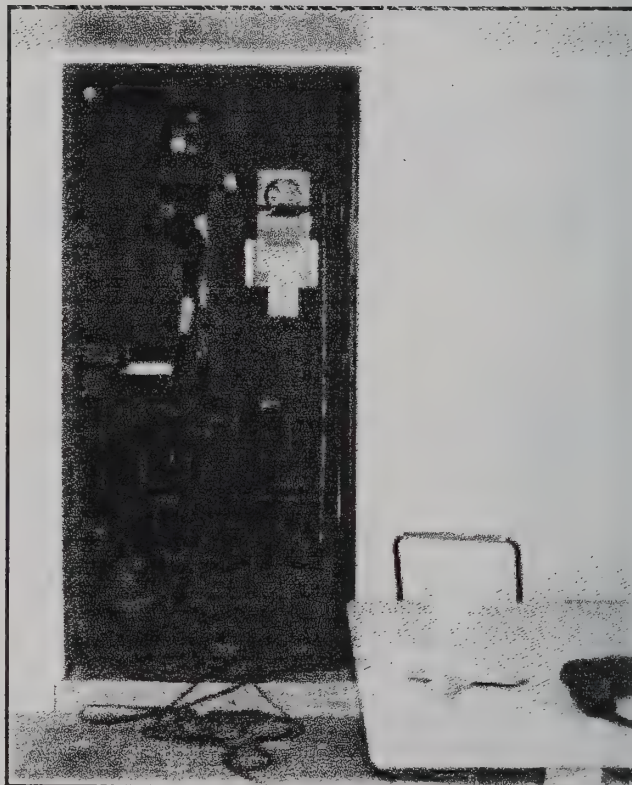
Speaking of new officers, this is the time for some of you to step forward and say, "Yes, I will help run this club for the next year." We are in need of people who belong to and have enjoyed EBARC, and who now will step forward to help. I will ask for nominations from the floor at the next meeting, and I hope that you will nominate one of your friends (with their consent).

Please come to the next meeting, as it will be our last at the West County Times. Bring someone with you, ham or not. Don't forget, if you see someone at the meeting that you don't know, put out your hand and say "howdy".

73s - Fred

Club Station Construction

Mel Hurley, KC6FAW
Ralph Hall, W6EFD



The walls, door and ceiling of the new station are painted. There's a new access hatch into the attic. The floor is being sanded and prepped for tile. The tile has already been purchased, and will be laid soon. The access between the new and old sections is complete, including a 4-inch rise step between them. The molding to seal off the space between the two buildings will be done before the end of October. We are still pursuing what to do about an alarm system. The "what" committee will be meeting soon to discuss further plans about the layout of operating positions, etc. We take our hats off to Bob Szentimrey, KC6QCG, for relieving us of all the garbage we have created during the construction.

Call for Nominations David Brandon, KG6FR

Fred Neiman and I have acted as the EBARC Nominating Committee, and our appearance on the list of nominees is entirely coincidental. Additional nominations for any office can be made prior to the November meeting, or from the floor. Please let Fred or me know in advance, if possible, since we are actively looking for nominees.

Nominations for club officers as of the *Blown Fuse* deadline are: President - Fred Nieman, KC6VLL; 1st VP (Program Chair) - David Brandon, KG6FR; 2nd VP (Hospitality Chair) - vacant; 3rd VP (Membership & Publicity Chair) - vacant; Secretary - John Percival, WI6O; and Treasurer - Gordon Parsons, NU6W.

The two vacant slots are excellent ways to get involved, especially for new members or those with very limited time to contribute to the club.

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The 2nd VP has traditionally been "cookie monster," but this role may depend on where we meet in the future (we may have access to vending machines) as well as on the incumbent's preferences.

The 3rd VP will be assisted in a major way by Sharon Primbsch, who is already maintaining the membership list, as announced last month. Thus, 3rd VP will be a back-up for Sharon, and instead will primarily be concerned with publicity.

NOW is the time to volunteer to be part of the Program Committee for 1995. Do you have one speaker in mind or a suggested program for a meeting?

Hint Check your FCC Amateur Radio

License. Is it about to expire?

General Meeting Minutes

October 14, 1994

John Percival, W16O, Secretary

The regular meeting of the East Bay Amateur Radio Club was called to order at 7:33 p.m. by President Fred Nieman, KC6VLL. Guests: Gary Britton, KE6CQP and Dave Crosby, KD6HAC. Kham Vilaikam, KO6FG, became a new member at this meeting.

Meeting Place: Fred read a letter our Club received from the West County Times announcing they will have to discontinue allowing outside groups to use the Community Room after normal business hours. They have had security problems and reported the loss of a VCR from the meeting room around the date of our September meeting. November will be the last month we can hold our meeting at the W. C. Times facility. Therefore, as of January 1995, we need to have a new location. Several members suggested possible locations, and they will be considered. The top concerns are cost to the Club, and convenience of the location. Miguel Belles suggested that the Club consider the long term idea of adding a second story to the Red Cross Annex A and B buildings for a meeting room. Sharon Primbsch, AA6XZ, read a letter she sent to the West County Times Editor about the loss of after hours use of their meeting room.

Emergency Service: Rachel Lewellen, KB6LHR, EC for West County, said we have been asked to participate in an S.E.T. with a San Francisco emergency services group to provide contacts in Contra Costa County. The event is scheduled for Saturday, Oct. 15th. Rachel also lined up RACES Net control operators for the month of November.

Club Station: Ralph Hall, W6EFD, co-chairman of the Club Station Expansion Committee, said progress on the remodeling project has been very good. The sheetrock and taping work is complete on the inside walls thanks to Leo Lewis, WA6ZFY, who volunteered his time and skill. Ralph said that another 200 man-hours have been put into the project since last month's report. The totals thus far are 381 man-hours and \$1,160 expenses for materials. Ralph said he expects to have a good estimate of the completion date by the time of next month's meeting. Ralph and Fred spoke about the need for additional security equipment at the station. An alarm company representative had given us an estimate of \$916 to set up a security system with a new control panel to link to the existing Red Cross alarm system. Fred said we could go with a smaller totally separate system for about \$300. This will be studied further and our security needs will be discussed with the Red Cross.

Education: Henry Primbsch, KK6PH, announced that he is planning a General upgrade class, so he needs a list of those who would be interested. Also, VE test sessions will continue to be given in 1995 on the 3rd Sunday of odd numbered months at the Oakland Blood Bank.

Social Committee: Vern Orme, AA6YE, announced that our Christmas dinner party will be on Sunday, December 18th at the Hunan Villa in Pinole. Cost will be \$15 each including door prizes. Requests for tickets should be sent to Joe Lee.

Program: Club member Bruce Perens, AB6YM, gave a talk about 9600 baud packet radio and the TCP/IP network protocol. Bruce showed the equipment he is using on 433.43 MHz, and gave a demonstration of its operation. He said

9600 baud packet is the wave of the future, and that present 1200 baud operation on 2 Meter packet is too slow for TCP/IP networking. Bruce said he will be presenting technical sessions at Pacificon on packet and TCP/IP.

The meeting was adjourned at 9:20 p.m. for raffle drawings.

ARES/RACES News

**Rachel Lewellen, KB6LHR,
West Contra Costa County
Emergency Coordinator**

Thanks to everyone. You have all been very patient with me in my recent move.

I've been the EC or the assistant EC for West County for the last seven years. It's been an interesting job, but it's time to pass it on to someone else.

The duties of the EC are as follows: Attend an evening meeting on the first Wednesday of every month. This county-wide meeting is held at the OES office in Pleasant Hill. Keep a record of all the West County ARES/RACES members, and maintain a telephone tree. Keep members informed of training opportunities, and occasionally host a training session. Maintain a working relationship with those West County federal, state, county, city, and private agencies who may need communications services during an emergency. Be sure that the Thursday evening ARES/RACES net has a net control. During an emergency, start the resource net, and activate the telephone tree.

Most planning and coordination has already been done, and the new EC would merely need to maintain things and make

any necessary changes. Many of these duties can be delegated to other hams. You must be a full ARRL member with a Technician class or higher license.

There's an Emergency Coordinator's manual which is full of good information. For more information, please contact me. I would like to see the new West Contra Costa County Emergency Coordinator take over at the December meeting, at the swearing in of new officers. I will attend the first EC meeting with you to help you get started.

Shirts and Badges

Joe Lee, WB6DOB

Yellow golf shirts with your name and call sign and the club logo are again available. The cost is \$21.50 per shirt, in advance (specify size). Badges with your name and call are also available at \$4.50 each. If you'd like either of these items, see me with the cash (no checks, please).

EBARC Holiday Party

Vern Orme, AA6YE

The EBARC Annual Holiday Dinner will be held on Sunday, December 18th, at 5:30 p.m. It will be a yummy Chinese dinner at the Hunan Villa Restaurant, 632-A San Pablo, Ave., Pinole. There will be good food, door prizes, and a no-host bar. Spouses, families, and guests of members are welcome. The restaurant is on the bay side of the street, in the Del Monte shopping center, at the corner of Del Monte Drive. The easiest approach is to exit I-80 on Appian Way, head for the bay, turn left onto San Pablo Ave. (at the bottom of the

hill), and drive 1.0 miles. The restaurant will be on your right.

To attend the dinner, you must purchase your tickets *in advance*. Send \$15 for each person to Joe Lee, WB6DOB, 1285 McDonald Dr., Pinole CA, 94564. Include a SASE ("Self Addressed, Stamped Envelope"). You can also purchase tickets from Joe in person. The ***firm*** deadline for purchasing tickets is December 11th. The restaurant needs an exact count by that time. *If you show up on the 18th without a ticket, you will not be able to attend the dinner (no exceptions)!*

Treasurer's Report October, 1994

Gordon Parsons, NU6W, Treasurer

OCTOBER INCOME

New Member: Khamchan Vilaikam,
KO6FG\$20.00
Raffle 13.00
Coffee Kitty 9.65
Total October Income\$42.65

OCTOBER DISBURSEMENTS

Blown Fuse Printing.....\$39.40
Blown Fuse Postage.....36.25
Building Construction Expenses.....428.81
Refreshments.....12.01
Pacific Bell (W6CUS).....12.94
Total October Disbursements..\$529.41

BANK OF THE WEST ACCOUNTS

Checking (General Fund)\$863.21
Savings (Station Fund)\$2,780.71

We are now collecting membership dues for 1995. Individual membership is \$20.00, and family membership is \$24.00 for one year. Please pay the Treasurer at the November meeting, or send a check to the

club at P.O. Box 1393, El Cerrito, CA 94530. Please write your call sign(s) on your check to help facilitate recording your renewal.

Remember to feed the Kitty!

Future Bay Area Events

- Livermore Swap Meet, 1st Sunday of each month at Las Positas College, 7 a.m. to noon, all year. Talk-in 147.045 Mhz. For more info, call Noel, KC6QZK, (510) 447-3857, evenings.
- EBARC Holiday Dinner, 5:30 p.m., Sunday, Dec. 18th, at the Hunan Villa in Pinole.

1995 EBARC Membership Renewal

Name _____

Call _____

N T T+ G A E
License Class (circle)

Street _____

City, State, Zip _____

Phone (include area code) _____

ARRL Member? ☐ Yes ☐ No
Membership Type ☐ Regular ☐ Family

Additional family member name, call, and class

Please use the lines above to tell us your ham interests, and any non-ham skills or hobbies

The East Bay Amateur Radio Club, Inc., founded in 1947, is a California non-profit corporation comprised of amateur radio operators in Contra Costa and Alameda counties. The club is open to anyone interested in amateur radio. Annual dues are \$20 for individual membership and \$24 for a family membership. For information, call (510) 233-7509, contact any EBARC official, or write EBARC, P.O. Box 1393, El Cerrito, CA 94530. The East Bay Amateur Radio Club maintains a club station, W6CUS, at the Richmond Red Cross. The packet station, W6CUS-1, is on 145.790 Mhz, and is linked to the EAST BAY LAN (EBAY) on 223.720 Mhz.

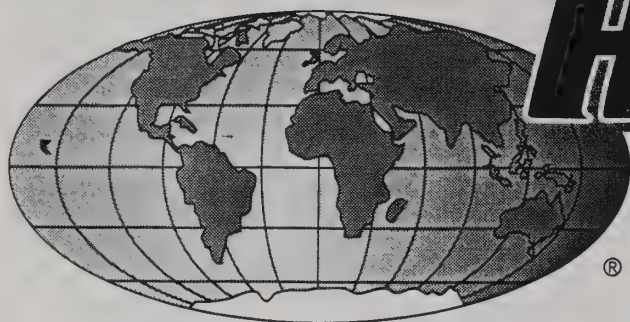
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David Brandon KG6FR, 2nd VP - Hospitality Chair.....	845-9559
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ARES/RACES EC- West Contra Costa County.....	233-5034
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Gordon Parsons NU6W, Treasurer / Finance Committee Chair...	785-4290
Ralph Hall W6EFD, Chief Elmer.....	232-0727
Henry Primbsch KK6PH, Education Chair	741-8227
Vern Orme AA6YE, Social Committee Chair	233-4504
Sharon Primbsch AA6XZ, Blown Fuse Editor	741-8227
Joe Lee WB6DOB, Awards Chair.....	724-0533
Dave Tyler N6DRT, Public Service Chair	525-6200
Bob Uhrhammer, W6CUS Trustee-designate.....	525-1447
Ray Gillett KF6FU, Chair, Digital and RFI Committees	799-5221
Will Nance AA6VL, Club Station Chair / Field Day Chair	524-9231
Harry Bier WA6TNI, Historian.....	372-6755
John Billones WD6GGC, Member-at-Large	237-1272
Doug Cain N6JNK, Member-at-Large.....	237-3294
Leo Lewis WA6ZFY, Member-at-Large	233-5034
Mel Hurley KC6FAW, Member-at-Large.....	526-2868

AMATEUR RADIO NETS

NET	DAYS	LOCAL TIME	FREQ, MHZ
EBARC Slow CW Net	Weds	2000	21.115
EBARC SSB Net	Weds	2100	28.395
EBARC UHF Net	Tues	1930 (PL 127.3)	444.450
West Contra Costa County ARES/RACES Net	Thurs	1845 (PL 82.5)	145.110
Northern Alameda County ARES Net	Thurs	1920	147.48s
Contra Costa Communications Club Net	Thurs	1930 (PL 82.5)	145.110
Oakland ARES Emergency Communications Net	Thurs	1930 (PL 77)	146.880
"Over the Hill Gang" Breakfast/Commute Net	Mo-Fr	0710 (PL 82.5)	145.110
Northern Calif. Net VHF Session	Daily	1930	145.410
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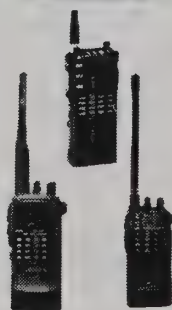


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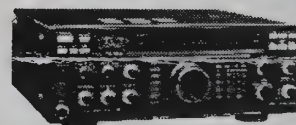


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THE EAST BAY AMATEUR RADIO CLUB, INC.

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THE BLOWN FUSE

CLUB STATION W6CUS

VOLUME XLVII NUMBER 12

DECEMBER 1994



EBARC Holiday Dinner!

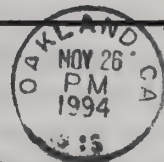
December 18, 1994, 5:30 p.m.
Hunan Villa Restaurant
632-A San Pablo Ave, Pinole

There will be no regular December meeting

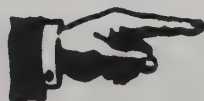


The East Bay Amateur Radio Club meets the second Friday of each month
at the Albany Senior Center, 846 Masonic Ave. (near Solano), Albany.
The Executive Board meets the first Friday of each month at 7:30 p.m.
at the home of Mel Hurley, KC6FAW, 137 Purdue Ave., Kensington.

THE EAST BAY AMATEUR RADIO CLUB, INC.
Post Office Box 1393
El Cerrito, CA 94530



FIRST CLASS MAIL



Robert C. Hughes, N6SPY
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POSTMASTER:
Address Correction Requested

The Blown Fuse is published monthly by the East Bay Amateur Radio Club, Inc. and is free to its members. *The Blown Fuse* welcomes articles of interest to its members and amateur radio in general. *The Blown Fuse* reserves the right to edit or reject any material submitted. Material submitted becomes the property of *The Blown Fuse*. Permission is hereby granted to reproduce material printed herein provided proper acknowledgment is given. Editor: Sharon Primbsch, AA6XZ

Deadline for January issue: Dec. 27

[Articles can be submitted to the W6CUS packet bulletin board's AA6XZ mailbox, by dialing in to the editor's computer, by dictation over the 'phone, or by e-mail to primbsch@cmsa.berkeley.edu.]

Message from the President Fred Nieman, KC6VLL

Well, this year is almost over, and we have sure gotten a lot done. In January we had our crab feed, raised a lot of money, and started a social that most enjoyed. I think we should have another one in 1995 to put some new equipment in the new radio room. Speaking of new radio room, we started that project and are about 75% complete. I say "we" but I mean Ralph, W6EFD; Mel, KC6FAW; Doug, N6JNK; Leo, WA6ZVF; Sam, N6VIF; and a few others. "TANKS".

At the last meeting the new officers were elected. Hopefully, this year the club will be run by a series of committees instead of just the officers. So this year you might be asked to help. Please do so.

We are on the move -- to Albany and it's Senior Center. This is thanks to Bob

Uhrhammer, WB6VEX.

Let me be the first (after Macy's) to wish you a happy holiday season. Please take a minute out to remember the reason for the season.

Special Insert Page Sharon Primbsch, AA6XZ

This issue of the *Blown Fuse* contains a special insert page. On one side is a flyer for the EBARC holiday party, including a map and instructions for getting tickets. Friends and family are welcome.

The other side of the *Blown Fuse* insert has the membership renewal form. Please tear out this form, and use it to provide all the information requested when sending in your renewal. It's important that we keep our mailing list up to date, and that we give you credit for any license upgrade you may have earned in 1994. On the form, we are asking whether you wish to receive your *Blown Fuse* by electronic mail or packet instead of on paper. This is an experiment in cost saving which begins this month with a few hardy volunteers. Volunteers should get this month's newsletter on paper *and* electronically. If you received your *Blown Fuse* on packet or by e-mail this month, please tell me how it went!

Field Day 1994 Results

Congratulations EBARC members! According to the November 1994 QST, we almost squeaked into the top one-fourth of the class 2A stations on Field Day. Our score was 3,438, which is in the 28th percentile (172nd of 616). The highest score was 10,764 points, the lowest was 170, and the middle score was 2,274.

General Meeting Minutes

November 11, 1994

Sharon Primbsch, AA6XZ (acting secretary)

The regular meeting of the East Bay Amateur Radio Club was called to order at 7:28 p.m. by President Fred Nieman, KC6VLL. Guests: Bert Smart, W6TWI; Russ Smart; Bert Strong, W6PSH; George Gliksman, KJ6QF; Harlan Shaw, KD6ZTS; and Gary Britton, KE6CQP. Ivan Sturman, WG6PIV, became a new member at this meeting.

Club Station: Ralph, W6EFD, reported that the room's floor, ceiling, and doors have been completed. To date, 510 person-hours and \$1,584.00 have been spent. On Nov. 11th, the "what" committee met and decided on the construction of two long benches. It's estimated that about \$360 will be needed to install benches and shelving. The committee recommended that HF transceivers and some work space remain in the old section of the station. The new room will have eight, flexible VHF/UHF operating positions, including the W6CUS packet BBS. The club generator will be stored under the BBS. Ralph also reported that the Ham IV rotor is frozen and needs to be repaired or replaced.

Social Committee: Vern Orme, AA6YE, reported that the Holiday party is set for October 18th. He passed out a flyer, and there will be additional information in the December *Blown Fuse*.

Education: Henry Primbsch, KK6PH, reported that there may be a class starting Jan. 24th at the Berkeley Adult School. If there is enough interest, it might be a General upgrade class.

Newsletter: Sharon Primbsch, AA6XZ reported that first class postage will go up

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to 32 cents in January. She asked to hear of members who might wish to receive their *Blown Fuse* by packet or e-mail, instead of by regular mail.

Meeting place: Fred Nieman led a discussion of where EBARC might meet in the future. After the discussion, it was moved, seconded, and passed that we have future meetings at the Albany Senior Center, 846 Masonic Ave., in Albany. They charge \$40 per meeting. If everyone participates in the raffle and feeds the "kitty", we may not have to increase dues to cover the meeting place fees.

ARES/RACES: Rachel Lewellen, KB6LHR, reported that we still need a new Emergency Coordinator for West Contra Costa County. She's willing to help the new person for a short while after the beginning of the year.

Election: Nominating Committee Chair, David Brandon, KG6FR, listed the slate of EBARC officers for 1995. They are -- President: Fred Nieman, KC6VLL; 1st Vice President: David Brandon, KG6FR; 2nd Vice President: Ron Smith, KE6HKQ; 3rd Vice President: Todd Myers, KE6AXC; Secretary: John Percival, WI6O; and Treasurer: Gordon Parsons, NU6W. It was moved and seconded that the slate be elected. The motion passed unanimously.

Elmer Award: Gary Britton, KE6CQP, presented an ARRL Elmer Award to Bert Strong, W6PSH, for helping his father, Joe Britton, KN6NGV, get re-started in amateur radio after a long absence.

Wearables: Joe Lee, WB6DOB, can arrange for the purchase of EBARC shirts and badges. Sam Watson, N6VIF, can do the same for jackets. Interested members should contact Joe or Sam.

Program: Kit Chantarotwong, KB6JZM, helped us honor our members who are veterans. A few of them told of their experiences. Kit then talked about the many types of amateur radio towers. He spoke about how to select, buy, disassemble, and install or re-install a tower. He included safety tips and hints on how to protect your gear against the weather, and showed slides of the installation of a Rohn tower.

The meeting was adjourned at 9:34 p.m. for raffle drawings.

Shirts and Badges

Joe Lee, WB6DOB

Yellow golf shirts with your name and call sign and the club logo are still available. The cost is \$21.50 per shirt, in advance

(specify size). Badges with your name and call are also available at \$4.50 each. If you'd like either of these items, see me with the cash (no checks, please).

PossibleTech License Renewal Problem

[Oct. '94 ARRL Letter]

If you hold a Technician class license issued before March 16, 1991, then you automatically are a Technician licensee with HF privileges (a "Tech Plus").

In some recent instances the FCC has processed the renewal or modification of such a Tech Plus license, but has mistakenly issued a "Technician" (no-code) license. (Since June 8, 1994, new and renewed Tech Plus licenses have been clearly labeled as such).

If the FCC made this error in your case, write to the FCC explaining the situation. Include your current license status, with effective date. Include copies of both your "before" and "after" licenses. If you no longer have either a copy or the original of your previous license, say so in your letter.

Send this to FCC, 1270 Fairfield Road, Gettysburg, PA 17325-7245. Keep copies of all your correspondence with the FCC. Expect the matter to take 4-6 weeks to be resolved. In the meantime, you may continue to exercise "Tech Plus" privileges.

**EBARC thanks Ham Radi© Outlet
and The Base Stati©n for their
gener©us support in 1994!**

The East Bay Amateur Radio Club, Inc., founded in 1947, is a California non-profit corporation comprised of amateur radio operators in Contra Costa and Alameda counties. The club is open to anyone interested in amateur radio. Annual dues are \$20 for individual membership and \$24 for a family membership. For information, call (510) 233-7509, contact any EBARC official, or write EBARC, P.O. Box 1393, El Cerrito, CA 94530. The East Bay Amateur Radio Club maintains a club station, W6CUS, at the Richmond Red Cross. The packet station, W6CUS-1, is on 145.790 Mhz, and is linked to the EAST BAY LAN (EBAY) on 223.720 Mhz.

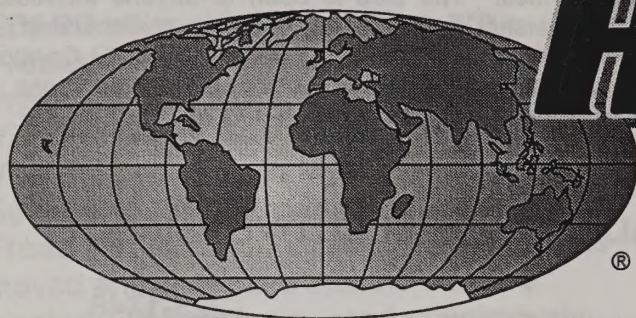
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Northern Alameda County ARES Net	Thurs	1915	147.48s
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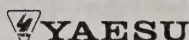
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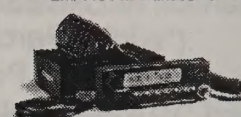
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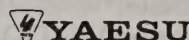
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